

ABclonal Antibodies Catalog

We're passionate about meeting a broad range of requirements demanded by globalized research, medical, and pharmaceutical industries. That's why ABclonal has spent a decade developing golden antibodies.

COMPANY PROFILE

ABclonal is the leader in biomolecular solutions for life science.

From our headquarters located in the heart of the Boston Biotech Cluster, we support the needs of academic and industry clients with custom-made proteins, antibodies, and peptides. In addition, we have a large catalog of unique and highly sensitive ELISA kits, proteins, antibodies, and cell culture products.

Our goal is to provide research reagents and services of the highest quality, at an affordable price, and in a timely manner, allowing our customers to focus their precious time and resources on advancing their own research.

To provide effective technical support, we are constantly seeking out new technologies that can improve product quality, drive down cost, and reduce delivery time. These improvements include the recent introduction of our MassAb® platform that produces a panel of monoclonal antibodies against a single target protein for a greatly reduced price per antibodies.


We currently have a catalog of more than 10,000 antibodies. Our vivarium is capable of hosting 40,000 rabbits over the course of the year.

ABclonal has an animal research base that holds more than 4,000 standard cultivation cages. With our professional R&D team, we have more than 10,000 premium rabbit polyclonal antibodies manufactured in-house, including those popular research areas such epigenetics, apoptosis, autophagy, RNA binding proteins, DNA damage/repair, NF- κ B, and Hippo pathway.



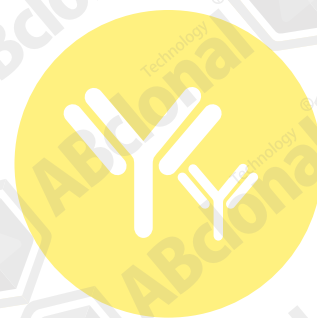
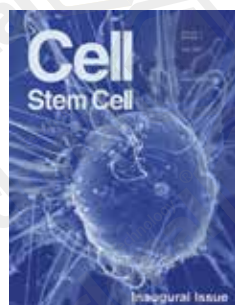
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Antibodies Citations and References

ABclonal antibodies have been cited by well-known scientific journals such as Nature, Science, and Cell. We will continue to offer high-quality antibodies to serve the scientific research community. Our goal is to provide antibodies with the most trustworthy experimental data.



Literature Examples

LETTER

doi:10.1038/nature23671

RNA m⁶A methylation regulates the ultraviolet-induced DNA damage response

Yang Xiang^{1,2*}, Benoit Laurent^{1,3*}, Chih-Hang Hsu^{1,3*}, Sterid Nachreiner^{1,4,5}, Zhifei Li^{1,4,5}, Wangqiang Shen^{1,2}, Chuanxin Xu^{1,2}, Hao Chen^{1,2}, Jian Ouyang^{1,2}, Siqing Wang^{1,2}, Dominic Ling^{1,2}, Peng-Hang Hsu¹, Lee Zou^{1,2}, Adewale Iambetokun^{1,2}, Chuan He^{1,2,4} & Yang Shi^{1,2}

Antibodies. Antibody α m⁶A (Synaptic Systems, 202 003) was used at 1 μ g/ml for immunofluorescence and 2 μ g/ml for western and dot-blots. Antibodies α METTL3 (ABclonal, A8370) and α METTL14 (ABclonal, A8530) were used at 2 μ g/ml for immunofluorescence and 0.5 μ g/ml for western blot. Antibody to Pol κ (ABclonal, P1619) was used at 5 μ g/ml for immunofluorescence or 0.5 μ g/ml for western blot. Antibody α XPA (Santa Cruz, sc-56831) was used at 3 μ g/ml for immunofluorescence or 0.5 μ g/ml for western blot. Antibody α Flag (Sigma-Aldrich, F3165) was used at 1 μ g/ml for immunofluorescence or 0.1 μ g/ml for western blot. Antibodies to γ H2A.X (Abcam, ab26350 (mouse), or ABclonal, AP0099 (rabbit)) were used at 2 μ g/ml or 1 μ g/ml, respectively, for immunofluorescence. α RAD18 antibody (Cell Signaling, 9040) was used at 1 μ g/ml for immunofluorescence. Antibodies to Pol δ 1 (ABclonal A5323), Pol δ 3 (ABclonal, A7243), Pol ϵ 3 (ABclonal, A6469), Pol η (Abcam, ab17725), Pol τ (Sigma-Aldrich, HPA012000 or ABclonal, A1942), PARP1 (Trevigen, 4338-MC-50), PAR (TULIP BIOLABS, 1023), XPC (Santa Cruz, sc-74410), DDB2 (ABclonal, A1848), CSA (Santa Cruz,



Cell Article

Stabilization of Reversed Replication Forks by Telomerase Drives Telomere Catastrophe

Graphical Abstract

Authors
Pol Margalef, Panagiotis Kotsantis, Valeria Borel, Roberto Bellelli, Stephanie Panier, Simon J. Boulton

Rabbit polyclonal anti-TERT	Abcam	Cat#ab191523
Rabbit polyclonal anti-TRF1	Abcam	Cat#ab1423; RRID: AB_301006
Rabbit polyclonal anti-UBC13	Cell Signaling Technology	Cat#4919; RRID: AB_2211168
Rabbit polyclonal anti-Zranb3	Abclonal	Cat#A9555
Rat polyclonal anti-BrdU	Santa Cruz Biotechnology	Cat#sc-56258; RRID: AB_781696
Chemicals, Peptides, and Recombinant Proteins		
Adenovirus Ad-Cre-GFP	Vector Biolabs	Cat#1700
Adenovirus Ad-GFP	Vector Biolabs	Cat#1060
BIBR1532	Santa Cruz Biotechnology	Cat#sc-203843

Methyltransferase SETD2-Mediated Methylation of STAT1 Is Critical for Interferon Antiviral Activity

Graphical Abstract



Authors

Kun Chen, Juan Liu, Shuxun Liu, ..., Yingming Jiang, Chunmei Wang, Xuetao Cao

REAGENT or RESOURCE	SOURCE	IDENTIFIER
Antibodies		
anti-pSTAT1	Cell Signaling Technology	Cat #9171; RRID: AB_331591
anti-STAT1	Cell Signaling Technology	Cat #9172; RRID: AB_10631362
anti-flag	Cell Signaling Technology	Cat #2368; RRID: AB_2217020
anti-IRF9	Cell Signaling Technology	Cat #76684
anti-GST	Cell Signaling Technology	Cat #2625; RRID: AB_490736
anti-histone 3	Abcam	Cat #ab1971
anti-H3K36me3	Abcam	Cat #ab9050; RRID: AB_306966
anti-lamin A/C	Abcam	Cat #ab108595; RRID: AB_10866185
anti-HBcAg	Abcam	Cat #ab115992; RRID: AB_10903422
anti-GAPDH	Proteintech	Cat #HRP-60004
anti-STAT2	Millipore	Cat #07-140; RRID: AB_11213767
anti-pSTAT2	Millipore	Cat #07-224; RRID: AB_2196439
anti-K525me1	ABmart	Cat #26703-1hV
anti-SETD2	Abclonal	Cat #A3194
FITC-conjugated anti-mouse IgG antibody	BD Bioscience	Cat #555988; RRID: AB_396275

Cell Stem Cell

An FAK-YAP-mTOR Signaling Axis Regulates Stem Cell-Based Tissue Renewal in Mice

Graphical Abstract



Authors

Jinmy Kuang, Huihui Wu, Wu Du, Samuel J. Shelton, Michael G. Ochsen, C. Michael D'Amico, Ophir D. Klein

Continued

REAGENT or RESOURCE	SOURCE	IDENTIFIER
Rabbit polyclonal anti-Serp1H1	Abclonal	Cat# A-2517
Rabbit polyclonal anti-VWTR1 (TAZ)	Sigma-Aldrich	Cat# HPA007415; RRID:AB_1080602
Rabbit polyclonal anti-YAP	Cell Signaling Technology	Cat# 4912; RRID:AB_2218911
Mouse monoclonal anti-YAP (63.7)	Santa Cruz Biotechnology	Cat# sc-101199; RRID:AB_1131430
Rabbit monoclonal anti-YAP (human) [EP1674Y]	Abcam	Cat# ab52771; RRID:AB_2219141
Goat polyclonal anti-rabbit IgG (H+L), Alexa Fluor 555 conjugated	Thermo Fisher Scientific	Cat# A21428; RRID:AB_10561552
Goat polyclonal anti-rat IgG (H+L), Alexa Fluor 555 conjugated	Thermo Fisher Scientific	Cat# A-21434; RRID:AB_2535855

ARTICLE

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Adenylate kinase hCINAP determines self-renewal of colorectal cancer stem cells by facilitating LDHA phosphorylation

Yapeng Ji^{1,2}, Chuanzhen Yang^{1,2}, Zefang Tang², Yongfeng Yang^{1,2}, Yinglu Tian², Hongwei Yao¹, Xi Zhu¹, Zeming Zhang², Jialu Ji² & Xiaofeng Zheng^{1,2}

Plasmids and reagents. The cDNAs of human hCINAP (wild-type and H79G mutant), the FGFR1 intracellular kinase domain containing residues 1–310, and LDHA were amplified by PCR and cloned into the pcDNA3.0-3flag, pRK-HA, pGEX4T1 and pET28a vectors. The following antibodies were used in this study: mouse monoclonal Flag antibody (F3165, Sigma, USA; 1:2,000), HA antibody (H9658, Sigma, USA; 1:2,000), mouse monoclonal His antibody (D291-3, MBL, Nagoya, Japan; 1:2,000), mouse monoclonal Myc antibody (M047-3, MBL, Nagoya, Japan; 1:1,000), mouse monoclonal GST antibody (M071-3, MBL, Nagoya, Japan; 1:1,000), rabbit monoclonal ACTIN antibody (PM053, MBL, Nagoya, Japan; 1:2,000), rabbit polyclonal LDHA antibody (BS6179, Bioworld Technology Inc.; 1:2,000), rabbit polyclonal hCINAP antibody (BS2171, Bioworld Technology Inc.; 1:1,000), rabbit polyclonal CD44 antibody (A1351, Abclonal; 1:1,000), rabbit polyclonal CD133 antibody (A0219, Abclonal; 1:1,000), rabbit polyclonal LGR5 antibody (A8090, Abclonal; 1:1,000), rabbit polyclonal HIF1 alpha antibody (GTX127309, GeneTex; 1:500), rabbit polyclonal FGFR1 antibody (I648, Bioworld

List of Cited Antibodies

Catalog	Name	Applications	Cross-Reactivity
A7592	ABHD5	WB	M R
A6801	ABHD5	WB	H M
A8091	ACOX1	WB IHC IF	H M R
A6826	ACSL4	WB	H M
A1270	ACSL5	WB IHC	H M R
A1160	ACTN1	WB IHC	H M Mk
A5453	ACVR1B	WB	H M
A8081	ADH1C	WB IHC	H M R
A1684	AKR1B1	WB	H M
A0001	AKT1	WB	H
A5523	AKT1	WB IHC IF	H M R
A0336	AKT2	WB IF	H M R
A1802	ALDH1A1	WB IHC	H M R
A1226	ALDH2	WB IHC IF	H M R
A1117	APEX1	WB IHC IF	H
A6871	ASGR1	WB IHC	H M R
A0643	ATP1A1	WB IHC	H
A2513	AXIN2	WB	H M
A5365	AZGP1	WB IHC	H M
A2211	BAX	WB	H Mk
A0207	BAX	WB IHC	H M
A0208	BCL2	WB IHC	H M R
A1307	BDNF	WB IF	H M R
A1530	BGLAP	WB IHC	H
A1551	BIRC5	WB IF	H M
A1185	CALM1	WB	H M
A0803	CANX	WB IHC	H M R
A0964	CASP1	WB	H M R
A2156	CASP3	WB	H M R
A0214	CASP3	WB	H M R
A0281	CASP9	WB IHC IF	H M R
A7634	CAST	WB	H M R
A1098	CBX5	WB IF IP ChIP	H M R
A7632	CCNA2	WB IHC	H M R
A2056	CCNB1	WB IF	H
A0381	CCNB1	WB	H
A0310	CCND1	WB IHC	H R
A1301	CCND1	WB	H M R
A10757	CCND1	WB IHC IF IP	H M R
A0112	CCNE1	WB IHC FC	H M R
A2207	CD24	WB	H
A0761	CD34	WB IHC	H M R
A0364	CD4	WB IHC FC	H M
A5527	CDC25A	WB	H M R
A0433	CDH2	WB IHC	H M R
A0030	CDK1	WB ICC	H R
A0220	CDK1	WB IHC IF	H M R
A2439	CDK2	WB ICC IP	H M R
A0366	CDK4	WB IHC IF	H M R
A0016	CDK4	WB IHC	H M
A1483	CDKN1A	WB	H M R
A2145	CHEK2	WB IHC IF	H M R

Catalog	Name	Applications	Cross-Reactivity
A0423	CHUK	WB IF	H M
A2062	CHUK	WB IHC IF	H M R
A7777	CKAP4	WB IHC	H M R
A5786	COL1A2	WB IHC	M R
A1263	COX41	WB IHC IF IP FC	H M R
A10098	COX41	WB IHC ICC IP FC	H M R
A6796	CPT1B	WB	H M R
A1561	CST3	WB IF	H M R
A2064	CTNNB1	WB	H M R
A0316	CTNNB1	IHC	H M
A2136	CUL1	WB IF	H M R
A0225	CYCS	WB IF	H M R
A0550	DDX58	WB IHC IF	H
A7530	DHRS3	WB	H M R
A10841	DLG4	WB IHC IF IP	H M R
A3205	DNMT1	WB ICC IP FC	H
A5495	DNMT1	WB IHC IF	H R
A2065	DNMT3A	WB IF	H M
A0051	E2F1	WB	H
A2295	EHMT2	WB	H
A11938	EIF2AK3	WB IHC	H M
A1248	EIF4EBP1	WB	H M R
A0668	ELL	WB	H M
A1324	EP300	WB	H
A1177	EPCAM	WB IHC	H M
A2917	EPOR	WB IHC	H M R
A0232	FABP4	WB IHC IF	H M R
A0233	FAS	WB IHC	H M R
A0234	FASLG	WB	H M R
A6273	FASN	WB	H M R
A1136	FBL	WB IF IP	H M Mk
A3215	FOLR1	WB IHC FC	H
A2493	FOXM1	WB	H M R
A0102	FOXO3	WB IHC	H M R
A1537	G6PD	WB	H M
A0185	GDF15	WB	H M R
A0237	GFAP	WB IHC IF	H M R
A8387	GLI1	WB	H M R
A4316	GOSR1	WB IF	H M
A6497	GRK1	WB IHC	H M
A2081	GSK3B	WB	H M
A0479	GSK3B	WB IHC	H M R
A0348	GSTP1	WB IHC IF FC	H M
A5691	GSTP1	WB IHC IF	H M
A2361	H3K27me1	WB IHC IF IP ChIP ChIPseq	H M R Other (Wide Range)
A2363	H3K27me3	WB IHC IF IP ChIP ChIPseq	H M R Other (Wide Range)
A2359	H3K9me2	WB IHC IF IP ChIP ChIPseq	H M R Other (Wide Range)
A2360	H3K9me3	WB IHC IF IP ChIP ChIPseq	H M R Other (Wide Range)
A2421	H3R17me2a	WB IHC IF IP	H M R Other (Wide Range)

Catalog	Name	Applications	Cross-Reactivity
A3155	H3R2me2a	WB IHC IF IP ChIP ChIPseq	H M R Other (Wide Range)
A7322	HBA1	WB IF	H M R
A0238	HDAC1	WB IHC IF	H M R
A0867	HDAC2	WB	H M R
A2139	HDAC3	WB IHC IF IP ChIP	H M R
A1264	HIBADH	WB	H M R
A6265	HIF1A	WB	H M R
A7684	HIF1A	WB	H M
A2348	HIST3H3	WB ChIP	H M R Other (Wide Range)
A0994	HK2	WB IF	H M R
A0719	HMGB1	WB IHC FC	H M R
A2553	HMGB1	WB IHC IF	H M R
A1346	HMOX1	WB	M R
A0365	HSP90AA1	WB IF	H M Mk
A1087	HSP90AB1	WB IHC IF	H M R Mk
A0284	HSPA1A	WB IF	H M
A0241	HSPA5	WB	H M R
A0240	HSPB1	WB IHC	H M R
A0969	HSPD1	WB IHC IF IP	H M R
A5597	ICAM1	WB	H M R
A2169	IDH1	WB	H M
A7190	IDH2	WB IHC IF IP ChIP	H M R
A2203	IFIH1	WB IHC IF	H
A0243	IGF1R	WB IHC IF	H M
A2086	IGF2	WB IF	H M
A0917	IKBK1	WB IHC IF	H M R
A1003	IKBK1	WB	H
A2089	IL13	WB IHC	H M R
A1367	IL13	WB IHC IF	H
A0688	IL17A	WB	H M R Mk
A3203	IL17A	WB	H
A1112	IL1B	WB	H M
A0286	IL6	WB	H M R
A11118	IRF3	WB IHC CHIP	H
A2172	IRF3	WB	M R
A0816	IRF3	WB	H M
A0857	ITGB4	WB	H M
A0361	JAK2	WB IF FC	H M
A0246	JUN	WB	H M
A1678	KAT5	WB	H M R
A1156	KDM1A	WB IF IP	H M
A2322	KDM3A	WB	H
A1820	KEAP1	WB IHC IF	H M R
A1464	LGALS3	IHC IF	H M R
A1887	LIG3	WB IF IP	H
A1743	LIG4	WB	H M
A0249	LMNA	WB IHC IF	H M R
A1910	LMNB1	WB IHC IF	H M R
A4987	LPCAT1	WB IHC	H M
A1439	LRP1	WB	H
A10963	LRP1	WB IHC IF IP	H M R
A0130	LRP5	WB IHC	H M R
A5601	MAP1LC3B	WB IHC	M R
A2572	Map2	WB IHC IF	H M R
A5906	MAP4	WB	H
A0228	MAPK3	WB IHC	H M R
A0025	MAPK3	WB	H M
A0288	MAPK8	WB IHC	H M
A1664	MBP	WB IHC IF	H M R
A0693	MGMT	WB IF	H M R
A1391	MIF	WB IF	H M

Catalog	Name	Applications	Cross-Reactivity
A5664	MME	WB	H M
A1191	MMP1	WB IHC	H M
A0317	MMP2	IHC	H M R
A6247	MMP2	WB IHC	H M R
A1202	MMP3	WB	H M
A2095	MMP9	WB IHC	H M
A0311	MMP9	WB IHC ICC FC	H R
A2559	MRE11A	WB	H M
A4967	MRPL24	WB	H M R
A4527	MRPS27	WB IHC IF IP	H M R
A1049	MTAP	WB IHC IF	H M R
A5250	MT-ND1	WB	H M R
A0380	mTOR	WB IHC IF	H
A0309	MYC	WB IP ChIP	H M R
A0499	MYCN	WB IHC	H M R
A0671	MYO10	WB IF	H
A0783	NBN	WB	H M
A7913	NCAM1	WB IHC	H M R
A1148	NCF1	WB	H M
A0484	NES	WB IHC IF FC	H
A1244	NFE2L2	WB	H M
A1187	NFKBIA	WB	H M R
A0259	NME1	WB IHC IF	H M R
A3200	NOS2	WB IHC IF FC	H
A3115	NOTCH3	WB IF	H M
A2164	NR3C1	WB IHC	H M
A6210	NRP1	WB	H M R
A2099	NTRK2	WB	H M R
A2268	OGG1	WB	H M
A2554	PAK1	WB	M
A2432	PARP1	WB IF IP	H M R Mk
A7334	PAX6	WB IF	H M R
A0264	PCNA	WB IHC	H M R
A2215	PDCD6IP	WB IHC	H M R
A0834	PKD1	WB	H M R
A3181	PECAM1	WB IF	H M R
A6302	PENK	WB IHC	H M R
A5262	PFKFB3	WB IHC	H
A6693	PNKP	WB IHC IF	H M R
A1681	POLB	WB IF	H M R
A3123	PPARA	WB	H M R
A0270	PPARG	WB	H M
A0993	PPIA	WB	H M R
A3208	PPIF	WB	H M
A2184	PPP1CA	WB IF	H M
A1229	PRKAA1	WB IF	H M R
A1419	PRKDC	WB	H M
A0219	PROM1	WB IHC	H
A5452	PSMB10	WB IHC IF	H M R
A1949	PSMD10	WB IHC IF	H M R
A10890	PSMD10	WB IHC IF	H
A5518	PTEN	WB IHC	H M R
A1590	PTPN1	WB IHC IF	H M R
A11433	PYCARD	WB IHC IF	H M R
A8030	RAB35	WB	H M R
A1047	RAD1	WB	H M
A0182	RAD50	WB IHC	H M
A6268	RAD51	WB	H M R
A3051	RBFOX3	WB IHC	H M R
A0951	RBFOX3	WB IF	H M R
A4191	REEP5	WB	H M
A0450	RELA	WB IHC IF FC	H M


Catalog	Name	Applications	Cross-Reactivity
A2547	RELA	WB IHC IF	H R
A8328	RNF11	WB	M R
A5620	ROR2	WB	H M R
A2190	RPS6KB1	WB	H M
A5328	S100A12	WB IHC	H M R
A0676	S100B	WB IF	H M R
A9321	SEC31A	WB IF	H M R
A3194	SETD2	WB	H M R
A0230	SIRT1	IHC	H M
A5718	SIRT3	WB IHC	H M R
A3129	SLC32A1	WB IHC	M R
A5361	SMARCE1	WB IHC IF	H M
A5243	SNAI1	WB IHC	H M R
A5544	SNAI1	WB IHC	H M R
A11794	SNAI1	WB IHC	H M R
A0572	SNAI2	WB IHC IF	H M R
A0274	SOD1	WB	H M R
A1340	SOD2	WB IHC IF	H M R
A0160	SPTAN1	WB	H M R
A0027	STAT1	WB IHC	H M R
A1192	STAT3	WB	H M R Monkey
A0275	STAT5B	WB IF	H R
A2122	STK11	WB IHC IF	H M R
A8043	STK4	WB IHC IP	H M R
A1169	STUB1	WB	H M
A3277	SUV39H1	WB IHC	H M R
A0743	TEK	WB IHC IF	H M R
A7222	TEK	WB IF	H M R
A0291	TGFB1	WB IHC FC	H
A6508	TGFBR1	WB IHC	H M
A0367	TLR2	WB ICC IP	H M R
A0277	TNF	WB	H M
A2526	TNK2	WB IF	H
A8034	TNNT2	WB	H M
A5781	TOPBP1	WB IHC IF	H M
A0263	TP53	WB IF	H
A5761	TP53	WB IHC IP	H M R
A0721	TSC1	WB	H M
A2216	TSG101	WB IP	H M R
A0482	TUBB	WB	H M R
A0162	UBB	WB IHC ICC FC	H M R
A3207	UBC	WB IHC	H M R
A6442	UBE3C	WB IHC IF	H
A6186	UGT1A1	WB IF	H M R
A1477	USP25	WB	H
A0166	VASP	WB IHC IF IP FC	H M R
A0279	VCAM1	WB IHC	H M R
A2795	VCP	WB	H M

Catalog	Name	Applications	Cross-Reactivity
A0810	VDAC1	WB IHC	H M
A5708	VEGFA	WB IF	H M
A0280	VEGFA	WB IF	H M R
A0377	VHL	WB	H M R
A2584	VIM	WB IHC IF	H
A0326	VIM	WB	H M R
A1800	XRCC2	WB IHC IF	H M R
A2134	XRCC3	WB IHC IF	H M R
A7539	XRCC4	WB	H
A1677	XRCC4	WB IHC IF	H M R
A5862	XRCC5	WB IHC IF IP	H
A0883	XRCC6	WB IHC IF	H M R Monkey
A1001	YAP1	WB IHC	H M R
A1002	YAP1	WB IHC IF IP	H M R
AP0140	Phospho-AKT1-S473	WB IHC	H M R
AP0098	Phospho-AKT1-S473	WB	H M R
AP0178	Phospho-CFL1-S3	WB IHC IF	H M R
AP0173	Phospho-CHUK-T23	WB IHC	H M R
AP0579	Phospho-CTN-NB1-S552	WB	H M R
AP0030	Phospho-EIF-4EBP1-T37/46	WB	H M R
AP0472	Phospho-ERK1-T202/Y204 + ERK2-T185/Y187	WB	H M R
AP0358	Phospho-GSK3B-S9	WB	H
AP0039	Phospho-GSK3B-S9	WB	H R
AP0091	Phospho-IRF3-S386	WB ICC	H
AP0373	Phospho-JAK2-Y1007	WB	H
AP0048	Phospho-Jun-S63	WB IF	H
AP0297	Phospho-MAPK14-T180/Y182	WB	H R
AP0234	Phospho-MAPK3-T202	WB IHC IF	H M R
AP0094	Phospho-mTOR-S2448	WB	H M R
AP0564	Phospho-P70S6K1-T389	WB	H
AP0186	Phospho-PAK1-T212	WB IHC IF	H M R
AP0116	Phospho-PRKAA1-T183/PRKAA2-T172	WB	M
AP0141	Phospho-PTEN-S380/T382/T383	WB IHC IF	H M R
AP0437	Phospho-PTK2-Y397	WB	H R
AP0174	Phospho-RB1-S795	WB	H
AP0175	Phospho-RB1-S807	WB	H M
AP0089	Phospho-Rb-S811	WB IF	H
AP0630	Phospho-Smad3-S423/S425	WB IHC IF	H M

MicroRNA Directly Enhances Mitochondrial Translation during Muscle Differentiation

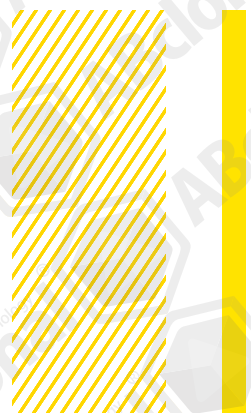
Xiaoning Zhang,¹ Xinhui Zhai,¹ Bo Yang,¹ Zhongrui Li,¹ Yuanzhao Xue,^{1,2} Yu Zhou,¹ Jie Huang,¹ Xianhe Zhen,¹ Jie Zhou,¹ Yan Yan,¹ Huijun Zhang,¹ Pengfei Guo,¹ Rui Sun,¹ Lin Guo,¹ Yu Zhang,^{1,3} and Kangping Fu^{1,3}

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(Abnova), TNRC6C (Abnova), ERα72 (PTGlab), ERp60 (PTGlab), Histone H3 (Abcam), Tm23 (PTGlab), Hand2 (Abcam), **MRPL24 (Abclonal)**, **MRPS27 (Abclonal)**, HSP60 (PTGlab) and NDUFB6 (Santa Cruz).

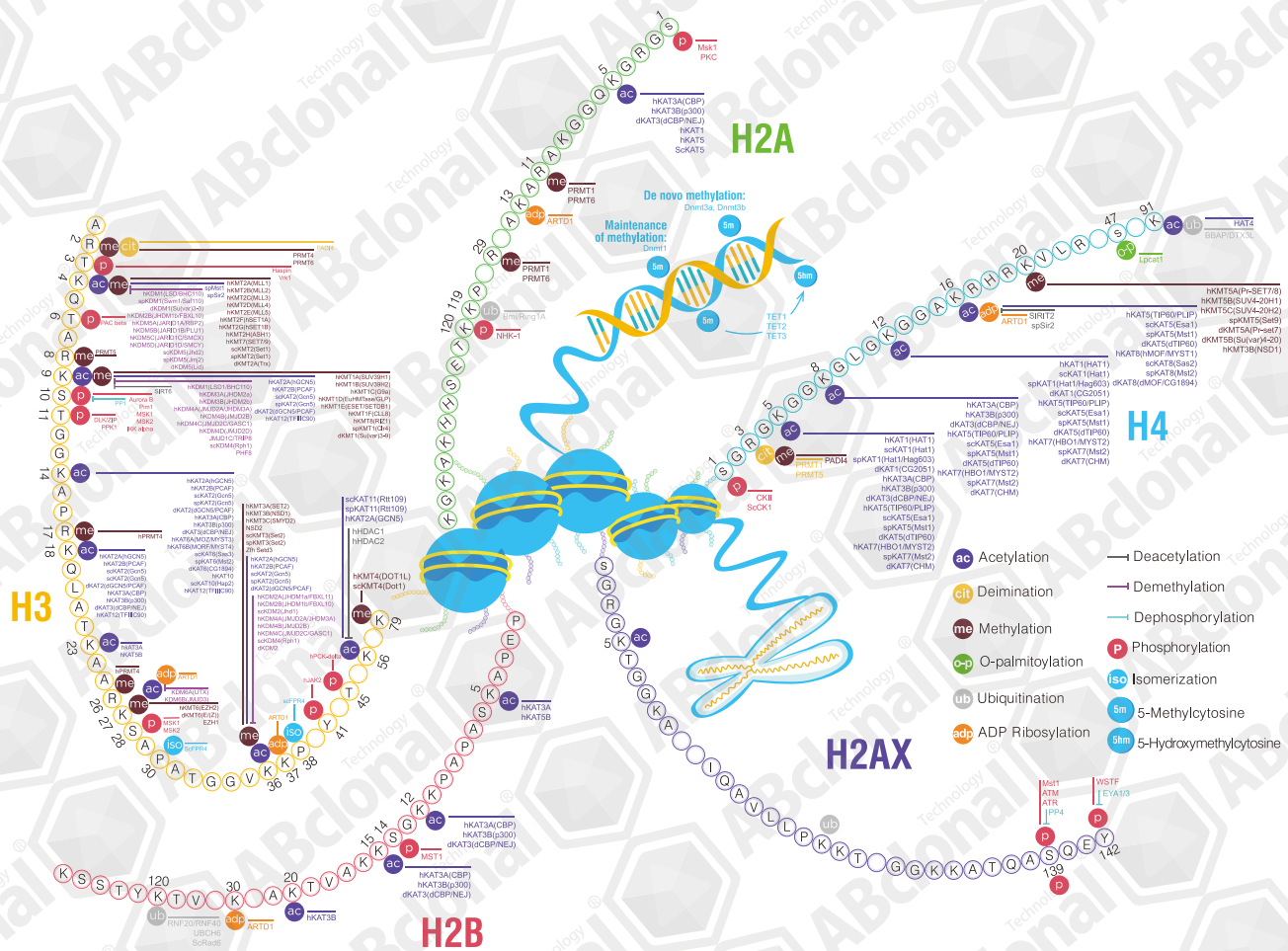
For immunostaining, C2C12 cells were seeded in 12-well plates, fixed with 4% paraformaldehyde for 10 min at room temperature, washed twice with PBS, and then permeabilized for 15 min on ice with 0.1% Triton X-100 in PBS. Cells were washed 3 times with PBS. Primary antibody diluted in PBS containing 3% BSA was applied to the cell and incubated at 4°C overnight. After washing 5 times with PBS, fluorescent-conjugated secondary antibody was applied to the coverslip and incubated in dark room for 1 hr. At this time, DAPI was applied at proper dilution, and after washing 5 times with PBS, cells were subjected to fluorescent microscopy.



Epigenetic Antibodies

- ABclonal takes on more than 4,000 antibody projects every year, which allow us to develop our expertise in two fields: histone-modified antibodies and epigenetic antibodies. One of our current projects is to establish the world's largest ChIP-seq antibody banks.
- A successful ChIP experiment is largely dependent on the use of well-characterized, highly specific ChIP-grade antibodies. Currently, ABclonal has nearly one hundred ChIP-validated antibodies with a specificity and affinity that is higher than the industry average.
- Histone modifications and DNA methylation are epigenetic marks that affect gene expression patterns. This poster below highlights the different types of epigenetic modifications, modifier enzymes and histone modification-binding proteins.

Histone modifications



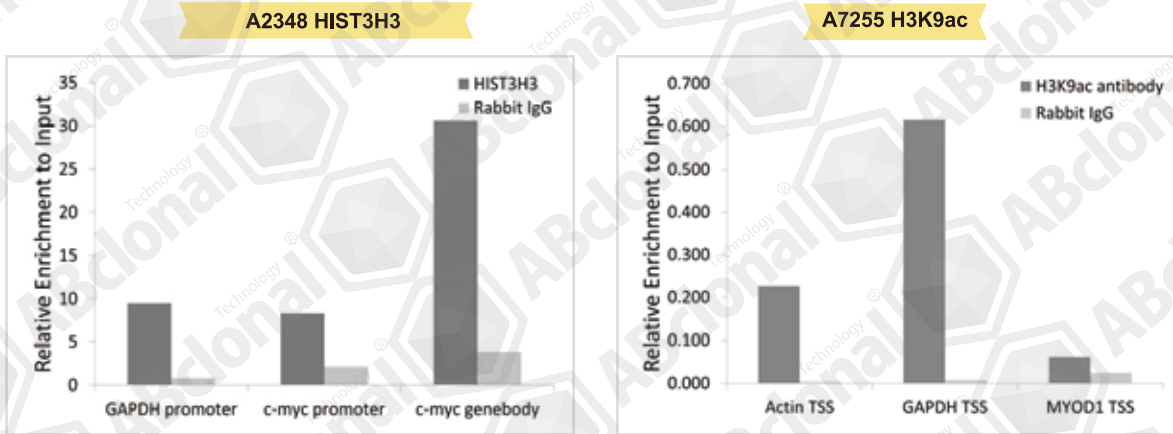


Fig.1

Methionine metabolism and its role in epigenetic modifications.

Fig.2

Reaction scheme of histone acetylation and cytosine methylation.

Fig.3

Schematic representation of the epigenetic changes in chromatin organization that influence gene expression.

Fig.1

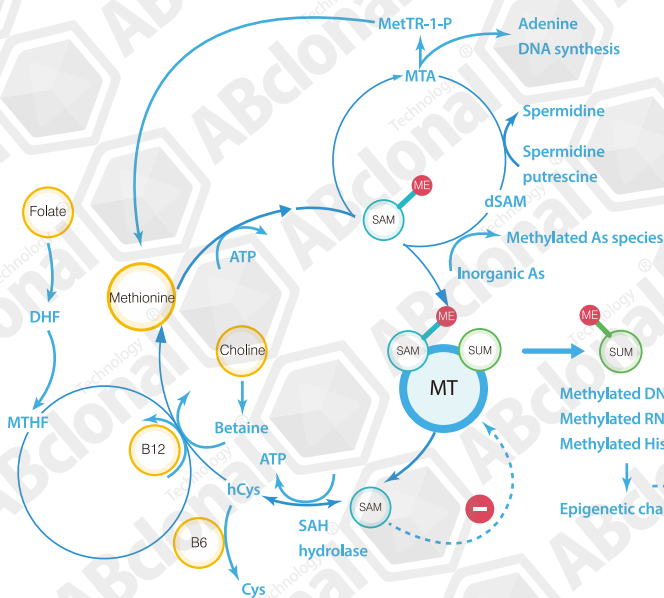


Fig.3

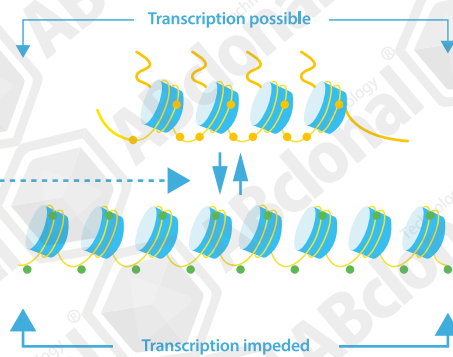
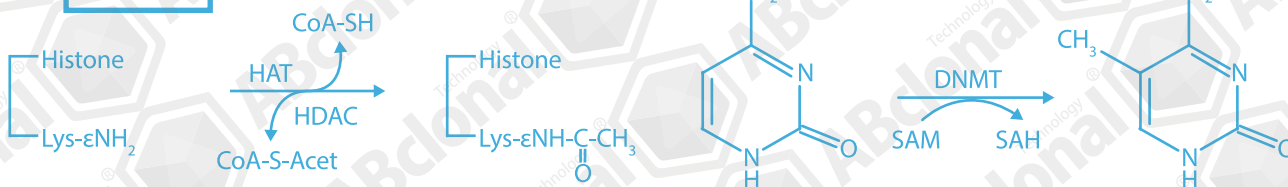


Fig.2



Epigenetic Antibodies List

Catalog	Name	Applications	Cross-Reactivity
A5387	ACTL6A	WB	H,M
A7108	ACTL6B	WB,IHC,IF	H,M,R
A11870	AKT2	WB,IHC,ICC,IF,IP,ChIP	H,M,R,Mk
A6240	ALKBH1	WB,IP	H
A5808	ALKBH3	WB	H,M,R
A2331	ALKBH7	WB	H,M,R
A7142	ALKBH8	WB,IHC,IF	H,M
A15488	ARID1B	WB	H
A8601	ARID2	WB	H
A2155	ATF2	WB,IHC,IF	H,M
A2121	AURKA	WB	H,M
A7930	AURKC	WB,IHC	H,M,R
A9866	BAZ1A	WB	H,M,R
A9851	BAZ1B	WB,IHC	H,M,R
A12545	BAZ1B	WB	H,M,R
A5810	BBOX1	WB	H,M
A0211	BMI1	WB	H
A2308	BRD7	WB	H
A14865	BRMS1	WB	M
A12656	BRWD1	WB	H,M
A5811	BTA1F1	WB,IHC,IP,ChIP	H,M,R
A6138	C11orf30	WB,IF	H,M
A2246	CARM1	WB	H,M,R
A2248	CBX3	WB,IHC,IF	H,M
A5532	CBX4	WB,IP	H,M,R
A6221	CBX4	WB,IHC,IP	H,M
A12592	CBX5	WB,IHC	H,M,R
A12577	CBX5	WB,IHC,IF	H,M
A1098	CBX5	WB,IF,IP,ChIP	H,M,R
A10612	CBX5	WB,IHC	H,M,R
A6222	CBX8	WB,IHC,IF	H,M,R
A2254	CDK2	WB,IHC	H,M
A9854	CDY1	WB	H,M,R
A15577	CDY1B	WB	M,R
A7401	CDYL2	WB	H,M,R
A2244	CHAF1A	WB	H
A6259	CHAF1B	WB,IHC,IF	H,M,R
A7883	CHD1	WB,IHC	H,M,R
A13478	CHD2	WB	H
A5895	CHD2	WB	H,M,R
A2221	CHD3	WB	H,M
A9903	CHD3	WB,IHC,FC	H
A11574	CHD4	WB	H
A9904	CHD4	WB	H
A12147	CHD9	WB	H,M
A14896	CHRAC1	WB,IHC	H,M,R
A7372	CHRAC1	WB,IHC	H,M
A1334	CREBBP	WB,IHC,IF	H,M,R
A7380	CSRP2BP	WB,IHC,IF	H,M,R
A1707	CTBP1	WB,IHC	H,M
A2257	CTBP2	WB	H,M,R
A12562	CTCF	WB,IHC,IP,ChIP	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A1133	CTCF	WB,IF,ChIP	H,M,R,Mk
A13272	CTCF	WB,IHC,IF,ChIP	H,M,R
A13423	CXXC1	WB,IF,IP	H,M
A5814	CXXC1	WB,IHC,IF	H,M,R
A6021	DICER1	WB,IHC	H,M
A7589	DIMT1	WB	H,M
A2324	DMAP1	WB,IHC	H,M,R
A15050	DNMT1	WB,IHC	H,M,R
A5495	DNMT1	WB,IHC,IF	H,R
A2065	DNMT3A	WB,IF	H,M
A11791	DNMT3A	WB	H,M
A2899	DNMT3B	WB	H,M
A13591	DNMT3L	WB	H,M,R
A6151	E2F6	WB,IHC,IF,IP,ChIP	H,M
A2283	EDF1	WB,IHC	H,M,R
A12773	EED	WB	H,M
A12776	EED	WB	M,R
A1151	EGLN1	WB	H,Mk
A2252	EGLN2	WB,IP	H,M,R
A13447	EGLN2	WB	M,R
A8513	EHMT1	WB	H,M,R
A1247	EHMT2	WB	H,M,R
A12151	EP400	WB	H
A13144	ERCC6L2	WB	H,M
A11085	EZH2	WB,IF	H,M
A13867	EZH2	WB	H
A9287	GTF3C4	WB	H
A6188	HAT1	WB,IHC,IF,ChIP	H,M,R
A0238	HDAC1	WB,IHC,IF	H,M,R
A6140	HDAC11	WB	H,M,R
A2084	HDAC2	WB,IHC,IF,IP	H,M,R,Mk
A12542	HDAC3	WB,IHC	H,M
A2139	HDAC3	WB,IHC,IF,IP,ChIP	H,M,R
A0179	HDAC4	WB,IHC	H,M,R
A0239	HDAC4	WB,IF	H,M,R
A7189	HDAC5	WB,IF	H
A1732	HDAC6	WB,IHC	H,M,R
A11259	HDAC6	WB,IHC,IP	H,M,R
A7285	HDAC7	WB,IF	H,M,R
A5829	HDAC8	WB,IHC	H,M,R
A1516	HDAC9	WB	H,M,R
A5831	HELLS	WB,IHC,IP	H,M,R
A5466	HIF1AN	WB,IHC,IF,IP	H,M,R
A8461	HIRA	WB,IHC	H,M
A12527	HIRA	WB	H,M
A2348	HIST3H3	WB,ChIP	H,M,R,Other (Wide Range)
A8353	HLTF	WB	H
A2553	HMGB1	WB,IHC,IF	H,M,R
A6155	HMG1	WB,IHC	H,M
A11996	HR	WB	H,M,R
A2169	IDH1	WB	H,M

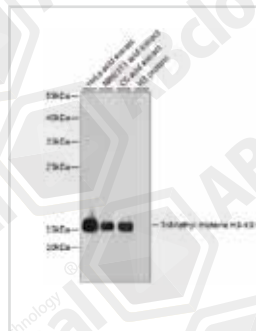
Catalog	Name	Applications	Cross-Reactivity
A13245	IDH1	WB	H,M,R
A7190	IDH2	WB,IHC,IF,IP,CHIP	H,M,R
A7904	ING1	WB	H,M,R
A5832	ING3	WB,IF	H,M,R
A10932	ING4	WB,IHC	H
A7288	ING5	WB,IF	H
A11118	IRF3	WB,IHC,CHIP	H
A9823	JARID2	WB	H,M,R
A7992	JMJD4	WB	H,M,R
A10476	JMJD8	WB	H,M,R
A11887	Jun	WB,IHC,IF,IP,CHIP	H,M,R,Mk
A2224	KAT2A	WB,IHC	H,M,R
A1678	KAT5	WB,IF	H,M,R
A5823	KAT7	WB,IF	H,M,R
A1156	KDM1A	WB,IF,IP	H,M,R
A11960	KDM3A	WB	H
A12551	KDM4A	WB	H,M
A7953	KDM4A	WB,IHC	H,M
A7772	KDM5B	WB	H
A9911	KDM5C	WB,ICC	H
A15740	KDM5C	WB	H,M,R
A8266	KDM7A	WB	H,M,R
A11606	KDM8	WB	H,M
A15794	KDMIA	WB	H
A12353	KMT2A	WB	H
A1435	KMT2A	WB	H,M
A8068	LEPREL1	WB	H,M,R
A11982	MBD2	WB,IHC	H,M,R
A2251	MBD3	WB	H
A5674	MECOM	WB	M
A13328	MECP2	WB,IF	H,M
A5694	MECP2	WB	H,M,R
A8059	MED24	WB	H,M,R
A2264	MEN1	WB,IHC,IF	H
A5410	MPG	WB,IF	H,M,R
A2243	MTA2	WB	H,M,R
A2328	MTA3	WB	H,M
A0309	MYC	WB,IP,CHIP	H,M,R
A3102	MYSM1	WB	H,M,R
A5827	NAB2	WB	H,M
A0765	NCOA1	WB	H,M
A10280	NCOA2	WB,IHC	H,M,R
A7046	NCOR1	WB,IF	H
A8388	NCOR2	WB	H
A11892	NFKB1	WB,IHC,IF,IP,FC,CHIP	H,M,R
A11879	NOTCH1	WB,IHC,IP,CHIP	H,M,R
A9981	NSD1	WB	H,M
A6820	NTHL1	WB	H
A0809	PAK1	WB,IHC	H,R
A2554	PAK1	WB	M
A9878	PBRM1	WB	H,M,R
A7459	PCGF3	WB	H,M,R
A5760	PCGF6	WB,IF	H,M
A5843	PHC1	WB,IHC	H,M,R
A14610	PHC2	WB	H
A6479	PHC3	WB,IF	H,M
A8450	PHF1	WB,IHC	H,M,R
A6330	PHF21A	WB	H,M,R
A7849	PHF21B	WB,IHC,IF	H,M,R
A7393	PHF6	WB	H,M
A7208	PHYHD1	WB,IF	H,M,R
A7919	PLOD1	WB,IF	H,M

Catalog	Name	Applications	Cross-Reactivity
A14044	PLOD1	WB	M
A6946	PLOD2	WB,IF	H,R
A10547	PLOD3	WB	H,M,R
A6469	POLE3	WB,IF	H,M
A8502	PRDM11	WB	M
A13658	PRDM14	WB,IHC,IF	H,M,R
A5543	PRDM14	WB,IP,CHIP	H,M,R
A7361	PRDM5	WB,IHC,IF	H,M,R
A7846	PRDM6	WB	H,M,R
A7961	PRDM7	WB,IF	H,M,R
A6193	PRMT1	WB,IHC,IP,CHIP	H
A5835	PRMT2	WB,IHC,IF	H,M,R
A13068	PRMT3	WB	M
A1520	PRMT5	WB,IHC,IF	H,M,R,Mk
A2318	PRMT6	WB	H
A12159	PRMT7	WB	H,M,R
A7420	RARA	WB,IP,CHIP	H
A13934	RBBP4	WB,IF,CHIP	H
A1490	RBBP4	WB,IHC,IF,IP	H,M,R,Mk
A13456	RBBP7	WB,IHC,IF,CHIP	H
A6967	RBBP7	WB,IF,IP,CHIP	H,M,R
A12845	RCOR1	WB	H,M
A7161	REST	WB	H
A5563	RNF2	WB,IHC,IP,CHIP	H,M,R
A2325	RNF20	WB	H
A6443	RNF40	WB,IHC,IF,CHIP	H
A0177	RPS6KA3	WB,IHC	H,M
A3194	SETD2	WB	H,M,R
A11757	SETD2	WB	H,M,R
A8071	SETD3	WB	H,M
A7242	SETD6	WB	H,M,R
A9985	SETD7	WB	H,M,R
A6145	SETDB1	WB,IHC	H,M,R
A2304	SF3B3	WB	H
A13928	SIN3A	WB,IHC	H,R
A1577	SIN3A	WB,IF,IP,CHIP	H,M
A11267	SIRT1	WB,IHC,IF,IP	H,M,R
A12988	SIRT1	WB	H
A14109	SIRT2	WB	M,R
A12575	SIRT2	WB,IHC	H,M,R
A5419	SIRT3	WB,IHC	H,M
A7307	SIRT3	WB,IHC	H,M,R
A5718	SIRT3	WB,IHC	H,M,R
A7585	SIRT4	WB	H,M,R
A7416	SIRT6	WB	H,M
A0979	SIRT7	WB,IHC,IF	H,M,R
A11882	Smad2	WB,IF,IP,FC,CHIP	H,M,R,Mk
A10248	SMARCA1	WB	H,M,R
A0887	SMARCA4	WB,IHC,IF	H
A2117	SMARCA4	WB,IF	H,M
A2000	SMARCA5	WB,IF	H,M
A13920	SMARCA1	WB	H
A5767	SMARCB1	WB,IHC	H,M,R
A6128	SMARCC1	WB,IHC,IP	H
A1967	SMARCC2	WB,IHC	H,M,R
A9950	Smardc1	WB,IHC	H,M,R
A6310	SMARCD1	WB	H,M,R
A12104	SMARCD2	WB	H,M
A13353	SMARCE1	WB,IHC,IF,IP	H,M,R
A5361	SMARCE1	WB,IHC,IF	H,M
A7008	SMC1A	WB	H,M,R
A10908	SMC2	WB	H

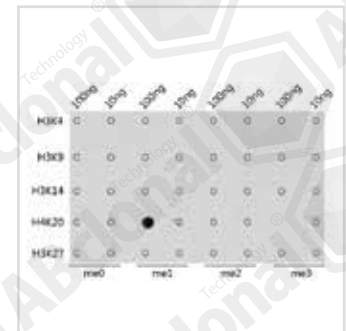
Catalog	Name	Applications	Cross-Reactivity
A13933	SMC4	WB	H,M
A10166	SMUG1	WB	H,M,R
A7308	SMYD1	WB	H,M,R
A2340	SMYD1	WB,IHC,IF	H,M,R
A9924	SMYD1	WB	M,R
A6474	SMYD2	WB,IF	H,M
A14516	SMYD3	WB	H,M
A2337	SMYD4	WB,IF,IP	H
A7310	SMYD4	WB,IHC,IF	H,M,R
A13636	SSRP1	WB,IHC,IF	H
A6413	SSRP1	WB,IHC,IF	H,M
A11900	STAT2	WB,IF,IP,FC,ChIP	H,M
A11867	STAT3	WB,IHC,IF,IP,FC,ChIP	H,M,R,Mk
A5855	SUV39H2	WB,IP,ChIP	H,M
A15442	SUV420H1	WB	H,M,R
A7786	SUZ12	WB,IHC,IP	H,M,R
A15730	TAF1	WB	H,M
A1262	TDG	WB	M,R
A5756	TDG	WB	H,M
A13366	TEAD1	WB,IHC,IF,ChIP	H,M
A12779	TET2	WB	H,M,R
A7612	TET3	WB	H,M
A10546	TRIM24	WB	H
A2245	TRIM28	WB,IHC	H,M,R
A9917	TRIM28	WB,IHC,ICC,IP	H
A9781	TRIM33	WB	H
A9919	TRIM33	WB	H
A7751	TTF2	WB,IF	H
A6315	UBE2B	WB,IHC	H,M,R
A5861	USP16	WB	H,M,R
A8563	UTY	WB	M,R
A10590	WDR11	WB	H,M,R
A7938	WHSC1	WB,IHC	H,M
A12856	ZBTB33	WB	H,M
A12900	ZBTB33	WB	H,M,R
A6327	ZMYND11	WB	H,M,R
A8737	ZMYND8	WB,IHC	H,M,R
A11812	ZNF217	WB	H
A8512	ZNF408	WB,IHC	H,M,R
A2355	H3K4me1	WB,IHC,IF,IP,ChIP	H,M,R,Other (Wide Range)
A2356	H3K4me2	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2357	H3K4me3	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A7255	H3K9ac	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2358	H3K9me1	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2359	H3K9me2	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2360	H3K9me3	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A7254	H3K14ac	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A5278	H3K14me2	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A5279	H3K14me3	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A7257	H3K18ac	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A7253	H3K27ac	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2361	H3K27me1	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2362	H3K27me2	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)

Catalog	Name	Applications	Cross-Reactivity
A2363	H3K27me3	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2364	H3K36me1	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2365	H3K36me2	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2366	H3K36me3	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A7256	H3K56ac	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A7262	H3K56me3	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2367	H3K79me1	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2368	H3K79me2	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2369	H3K79me3	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A3154	H3R2me1	WB,IHC,IF,ChIP	H,M,R,Other (Wide Range)
A3155	H3R2me2a	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2373	H3R2me2s	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A3156	H3R8me1	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2374	H3R8me2s	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A3151	H3R17me1	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A7258	H4K8ac	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2370	H4K20me1	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2371	H4K20me2	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)
A2372	H4K20me3	WB,IHC,IF,IP,ChIP-ChIPseq	H,M,R,Other (Wide Range)

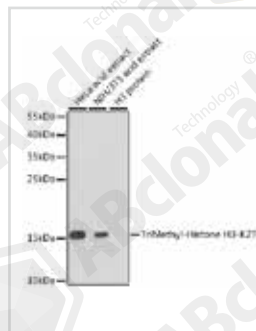
A2360 H3K9me3



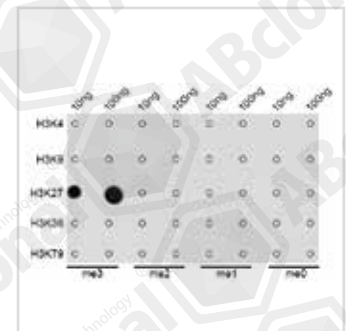
A2370 H4K20me1



A2363 H3K27me3



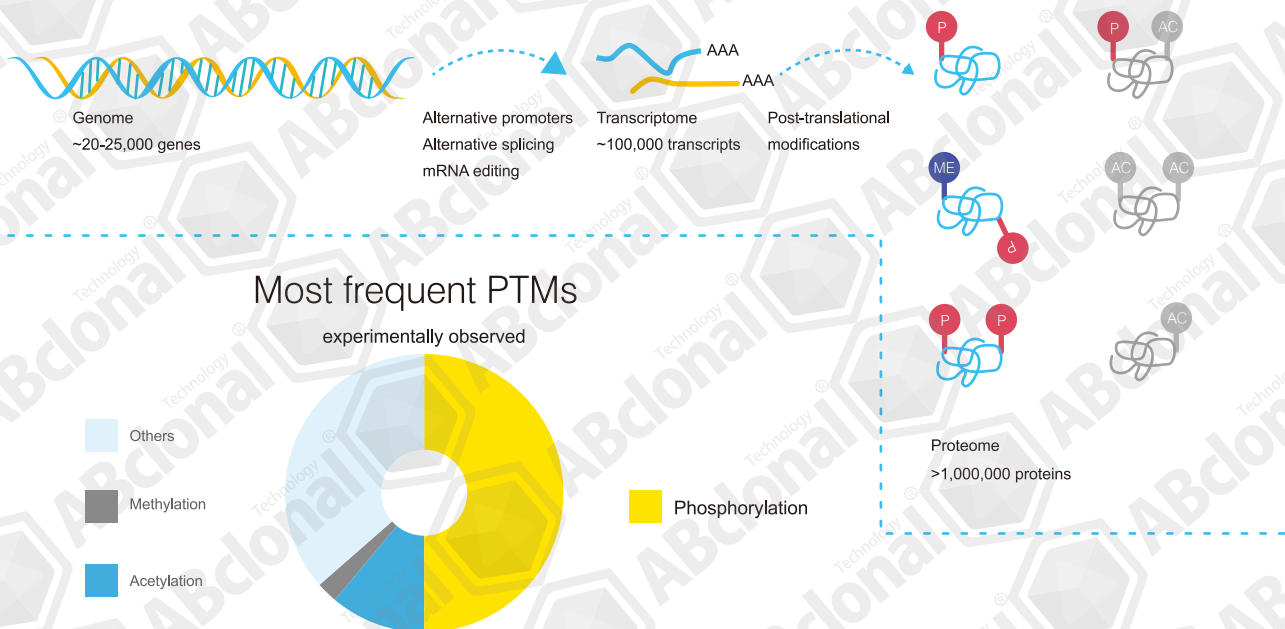
A2363 H3K27me3



Phosphorylated Antibodies

- Phosphorylated proteins are important in research in terms of their contribution to a diversity of biological activities. They have been shown to affect protein structure and cellular functions, which allow cells to rapidly respond to developmental or environmental stimuli.
- Antibodies raised against site-specific modifications have a number of potential applications, including cell signaling, protein structure, function, development, maturation, localization, disease diagnostics, activity, mitosis, DNA modification, and more.
- Protein phosphorylation is the most common type of more than 200 modifications known to exist in vivo.
- Our scientists have overcome the challenges of preparing phosphorylated antibodies, and developed proprietary methods for the formulation of highly specific phosphorylated antibodies that can be used in a wide range of studies – some of which are not easily performed by other approaches, such as MS.

Over 200 distinct covalent PTMs to diversify the proteome



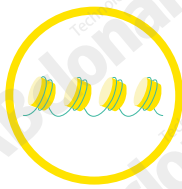
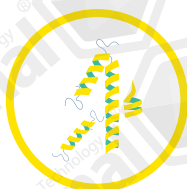
Dot blot assays or ELISAs can be used to assess both antibody specificity and sensitivity. However, unlike ChIP, in addition to being specific for the required modification, the antibody must be validated for the application of choice using appropriate positive and negative controls.

Phosphorylated Antibodies Applications

Phosphorylated antibodies are ideal for analysis where spatiotemporal information of the phosphorylated protein is necessary. In this instance, immunohistochemistry or immunofluorescence applications allow for the identification of specific cell populations, individual organelles or sub-cellular structures at the location of the phosphorylated protein. Similarly, phosphorylated antibodies can be used to analyze the existence or relative amounts of the phosphorylated protein by Western Blot, or to more quantitatively characterize the cell populations bearing the phosphorylation of interest – by flow cytometry.

Phosphorylated antibodies can also be used to identify and purify protein-protein, protein-DNA, and/or protein-RNA complexes that containing the modified protein. When studying protein-protein interactions using phosphorylated antibodies, sensitivity and resolution of immunoprecipitation (IP) can be greatly improved with the use of dedicated reagents like TrueBlot. Chromatin Immunoprecipitation (ChIP) for the identification of genomic regions that contain a specifically modified histone residue is also a core application of phosphorylated antibodies in epigenetics.

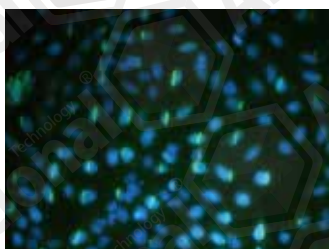
Additionally, phosphorylated antibodies are used in high-throughput screening of RNAi to study the control of signaling pathways or to describe the fate of a phosphorylated protein.



Featured Phospho-specific Antibodies

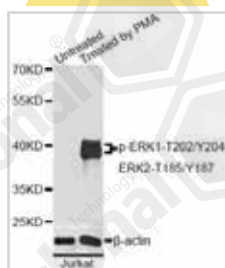
Phosphorylation involves the addition of phosphate groups to proteins, most commonly at a serine (S), threonine (T) or tyrosine (Y) residue by a kinase. It is essential for pathway activation in cellular regulation, cell signaling, and growth.

AP0099



Phospho-H2AFX-S139 pAb

AP0472



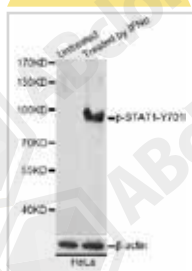
Phospho-ERK1-T202/
Y204 + ERK2-T185/Y187 pAb

AP0548



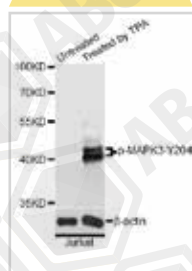
Phospho-Smad2-S465/
467/-Smad3-S423/425 pAb

AP0135



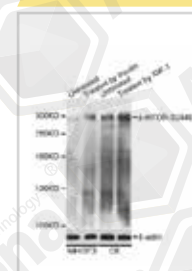
Phospho-STAT1-Y701 pAb

AP0235



Phospho-MAPK3-Y204 pAb

AP0094



Phospho-mTOR-S2448 pAb

Phosphorylated Antibodies List

Catalog	Name	Applications	Cross-Reactivity
AP0626	Pan Phospho-Tyrosine	WB,IHC,IP	All
AP0003	Phospho-ABL1-Y204	WB,IF	H,M
AP0001	Phospho-ABL1-Y245	WB,IF	H,M
AP0282	Phospho-ABL1-Y393/ABL2-Y429	WB,IHC,IF	H,M
AP0303	Phospho-ABL1-Y412	IHC,IF	H,M
AP0298	Phospho-ACACA-S79	WB	H
AP0779	Phospho-ACLY-S455	WB	M
AP0196	Phospho-ADD1-S726	WB,IHC,IF	H,M,R
AP0793	Phospho-AKT1S1-T246	WB	H,M
AP0140	Phospho-AKT1-S473	WB,IHC	H,M,R
AP0098	Phospho-AKT1-S473	WB	H,M,R
AP0637	Phospho-Akt1-S473	WB,IHC,IF	H,M,R
AP0304	Phospho-AKT1-T308	WB	H,M
AP0275	Phospho-AKT1-T450	WB	H
AP0004	Phospho-AKT1-T450	WB,IF	H
AP0274	Phospho-AKT1-Y315/AKT2-Y316/ AKT3-Y312	WB,IHC,IF	H,M,R
AP0305	Phospho-AKT2-S474	WB,IHC	H,M,R
AP0655	Phospho-Akt-S473	WB,IF,IP,FC	H,M,R
AP0503	Phospho-ALK-Y1096	WB	H
AP0573	Phospho-ALOX5-S271	WB	H
AP0116	Phospho-AMPK α -T172	WB	M
AP0200	Phospho-APP-668	WB	H,M
AP0006	Phospho-APP-T668	WB	H,R
AP0306	Phospho-AR-S213	WB,IF	H
AP0307	Phospho-AR-S650	IHC	H
AP0130	Phospho-ATF2-S112/S94	WB,IHC	H,M,R
AP0127	Phospho-ATF2-S62/S44	WB,IHC	H,M,R
AP0128	Phospho-ATF2-T69/T51	WB,IHC,IF	H,M,R
AP0129	Phospho-ATF2-T71/T53	WB,IHC	H,M,R
AP0308	Phospho-ATF2-T73/T55	WB,IHC,IF	H,M,R
AP0309	Phospho-ATF4-S245	WB,IHC	H
AP0310	Phospho-ATM-S1981	WB,IHC	H
AP0311	Phospho-AURKA-T288	IHC	H,M
AP0143	Phospho-BAD-S112	WB,IHC	H,M,R,Mk
AP0144	Phospho-BAD-S136	WB,IHC	H,M
AP0312	Phospho-BAD-S155	WB,IHC	H,M,R
AP0813	Phospho-BCAR1-Y165	WB	H,M,R
AP0313	Phospho-BCL2L11-S69	IHC,IF	H,M,R
AP0314	Phospho-BCL2L1-S62	WB,IHC,IF	H,M,R
AP0315	Phospho-BCL2-S70	IHC	H
AP0575	Phospho-BCL2-S70	WB,IF	H
AP0316	Phospho-BCL2-T56	IHC	H
AP0205	Phospho-BCR-Y177	WB,IHC	H,M
AP0606	Phospho-BCR-Y177	WB	H
AP0232	Phospho-BCRA1-S1423	WB	H
AP0317	Phospho-BCRA1-S1524	IHC	H
AP0645	Phospho-BTK-Y223	WB,IP	H
AP0092	Phospho-Cacna1c-S1927	WB,IHC	H,M,R
AP0255	Phospho-Camk2a-T286	WB	H,M,R
AP0319	Phospho-CARM1-S228	WB,IF	H,M,R
AP0320	Phospho-CAV1-Y14	WB,IF	H,M,R

Catalog	Name	Applications	Cross-Reactivity
AP0292	Phospho-CBL-Y700	WB,IHC,IF	H
AP0780	Phospho-CBL-Y700	WB	H
AP0287	Phospho-CCNB1-S147	WB,IHC,IF	H
AP0288	Phospho-CCNE1-T395	WB	H
AP0321	Phospho-CDC25A-S76	WB,IHC	H,M,R
AP0322	Phospho-CDC25b-S149	WB	M,R
AP0323	Phospho-CDC25C-S216	WB	H
AP0015	Phospho-CDK1-T14	WB,IF	H,M,R
AP0324	Phospho-CDK1-T161	WB,IHC,IF	H
AP0233	Phospho-CDK1-Y15	WB	H,M,R
AP0016	Phospho-CDK1-Y15	WB,IF,IP	H,M,R
AP0325	Phospho-CDK2-T160	WB,IHC	H,M,R
AP0593	Phospho-CDK4-T172	WB	H,M,R
AP0326	Phospho-CDK6-Y13	WB,IHC,IF	H,M
AP0289	Phospho-CDK6-Y24	WB,IHC,IF	H,M
AP0810	Phospho-CDK9-T186	WB	H,M,R
AP0327	Phospho-CDKN1A-T145	IHC	H
AP0328	Phospho-CDKN1B-T187	WB,IHC	H,M,R
AP0113	Phospho-Cebpb-S184	WB	H
AP0178	Phospho-CFL1-S3	WB,IHC,IF	H,M,R
AP0330	Phospho-CFL1-Y139	IHC	H,M,R
AP0329	Phospho-CFL1-Y88/CFL2-Y88	WB,IHC	H,M
AP0179	Phospho-CHEK1-S280	WB	H
AP0545	Phospho-CHEK2-S33/35	WB	H
AP0331	Phospho-CHEK2-S516	WB	H
AP0590	Phospho-CHEK2-T68	WB	H
AP0173	Phospho-CHUK-T23	WB,IHC	H,M,R
AP0332	Phospho-CREB1-S129	WB	H
AP0333	Phospho-CREB1-S133	WB,IHC	H,M,R
AP0019	Phospho-CREB1-S133	WB,IF	H
AP0334	Phospho-CREB1-S142	WB,IHC	H,M,R
AP0824	Phospho-CRKL-Y207	WB	H,M,R
AP0335	Phospho-CSNK2A1-T360/S362	WB	H,M,R
AP0273	Phospho-CTNNA1-S641	WB	H,M
AP0216	Phospho-CTNNB1-S33	WB	H
AP0217	Phospho-CTNNB1-S37	WB,IHC	H,M,R
AP0579	Phospho-CTNNB1-S552	WB	H,M,R
AP0795	Phospho-CTNNB1-S675	WB	H,M,R
AP0336	Phospho-CTNNB1-T41/S45	WB	H
AP0337	Phospho-CTNNB1-Y333	WB	H
AP0247	Phospho-CITN-Y466	WB	H,M
AP0248	Phospho-DOK1-Y362	WB,IHC	H,M,R
AP0249	Phospho-DOK1-Y398	WB,IHC	H,M,R
AP0250	Phospho-DOK2-Y299	WB,IHC,IF	H
AP0821	Phospho-DPYSL2-T514	WB	H,M,R
AP0338	Phospho-EFNB2-Y316	WB	H,M
AP0339	Phospho-EFNB2-Y330	WB	H,M
AP0153	Phospho-EGFR-S1070	WB	H
AP0025	Phospho-EGFR-T669	WB	H
AP0198	Phospho-EGFR-T678	WB	H
AP0199	Phospho-EGFR-T693	WB	H
AP0819	Phospho-EGFR-Y1045	WB	H

Catalog	Name	Applications	Cross-Reactivity
AP0301	Phospho-EGFR-Y1068	WB	H
AP0820	Phospho-EGFR-Y1086	WB	H
AP0154	Phospho-EGFR-Y1092	WB	H
AP0636	Phospho-EGFR-Y1092	WB,IHC,IF	H,M
AP0243	Phospho-EGFR-Y1110	WB	H
AP0028	Phospho-EGFR-Y1148	WB	H
AP0218	Phospho-EGFR-Y1172	WB	H
AP0223	Phospho-EGFR-Y1197	WB	H
AP0023	Phospho-EGFR-Y845	WB	H
AP0224	Phospho-EGFR-Y869	WB	H
AP0026	Phospho-EGFR-Y992	WB	H
AP0024	Phospho-EGFR-Y998	WB	H
AP0632	Phospho-EIF2AK2-T446	WB,IHC,IF,IP	H
AP0340	Phospho-EIF2AK2-T451	IHC	H
AP0343	Phospho-EIF2S2-S2	WB	H,M
AP0341	Phospho-EIF2 α -S49	WB,IHC,IF	H,M,R
AP0342	Phospho-EIF2 α -S51	WB,IHC,IF	H,M,R
AP0745	Phospho-EIF2 α -S51	WB,IP	H
AP0635	Phospho-EIF2 α -S51	WB,IHC,IF	H,M,R
AP0278	Phospho-EIF4B-S422	WB,IHC	H,M
AP0032	Phospho-EIF4EBP1-S65	WB	H,M,R
AP0344	Phospho-EIF4EBP1-T36	WB,IHC	H,M,R
AP0219	Phospho-EIF4EBP1-T45	WB,IHC	H
AP0031	Phospho-EIF4EBP1-T70	WB	H,M,R
AP0228	Phospho-EIF4E-S209	WB,IHC,IF	H
AP0279	Phospho-EIF4G1-S1232	WB,IHC	H
AP0345	Phospho-ELK1-S383	WB,IHC	H,M,R
AP0133	Phospho-ELK1-S389	WB,IHC	H,M,R
AP0346	Phospho-ELK1-T417	IHC,IF	H,M,R
AP0515	Phospho-ENOS-S1177	WB	H,M
AP0818	Phospho-EphA2-Y594	WB	H,R
AP0817	Phospho-EphA2-Y772	WB	H,R
AP0149	Phospho-ERBB2-Y1221/Y1222	WB	H
AP0152	Phospho-ERBB2-Y1248	WB	H
AP0148	Phospho-ERBB2-Y877	WB	H
AP0277	Phospho-ERBB3-Y1328	WB,IHC,IF	H,M,R
AP0034	Phospho-ERBB4-Y1284	WB	H,M,R
AP0472	Phospho-ERK1-T202/Y204 + ERK2-T185/Y187	WB	H,M,R
AP0051	Phospho-ERK3-S189	WB	H,M,R
AP0145	Phospho-ESR1-S104	WB,IHC	H,M
AP0347	Phospho-ESR1-S106	WB,IHC,IF	H,M
AP0146	Phospho-ESR1-S118	WB,IHC,IF	H,M
AP0348	Phospho-ESR1-S167	WB,IHC,IF	H,M
AP0648	Phospho-ESR2-S105	WB	H,M,R
AP0207	Phospho-EZR-T567	WB	H,M,R
AP0349	Phospho-EZR-Y353	WB,IHC	H,M
AP0350	Phospho-FAM129A-S602	WB	H
AP0007	Phospho-FAS-Y291	WB	H
AP0036	Phospho-FGFR1-Y653	WB	H,M,R
AP0037	Phospho-FGFR1-Y654	WB	H
AP0035	Phospho-FGFR1-Y766	WB	H
AP0783	Phospho-FLNA-S2152	WB	H,M
AP0038	Phospho-FOS-T232	WB,IF	H,M,R
AP0172	Phospho-FOXO1-S256	WB	H,M
AP0176	Phospho-FOXO1-S319	WB,IHC,IF	H,M,R
AP0351	Phospho-FOXO3-S253	WB,IHC,IF	H,M,R
AP0628	Phospho-FOXO3-S253	WB,IHC	H,M,R
AP0177	Phospho-FOXO4-S197	WB,IHC,IF	H,M,R
AP0510	Phospho-FYN-S21	WB	H
AP0352	Phospho-G3BP1-S232	WB,IHC,IF	H
AP0256	Phospho-GAB1-Y627	WB,IF	H,M
AP0353	Phospho-GAP43-S41	IF	H,M,R

Catalog	Name	Applications	Cross-Reactivity
AP0134	Phospho-GATA1-S142	WB,IHC,IF	H
AP0354	Phospho-GATA1-S310	WB,IF	H,M,R
AP0355	Phospho-GJA1-S368	WB,IHC	H,M,R
AP0356	Phospho-GRIA1-S836	WB	H,M,R
AP0825	Phospho-GRIA1-S845	WB	H,M,R
AP0242	Phospho-GRIA1-S849	WB	H,M,R
AP0257	Phospho-GRIA2-S880	WB	H,M,R
AP0165	Phospho-GRIN1-S896	WB	H,M,R
AP0357	Phospho-GRIN2B-Y1474	WB,IF	H,M,R
AP0120	Phospho-GSK3A-S21	WB,IHC,IF	H,M,R
AP0582	Phospho-GSK3A-S21	WB,IHC	H
AP0358	Phospho-GSK3B-S9	WB	H
AP0039	Phospho-GSK3B-S9	WB	H,R
AP0644	Phospho-GYS1-S641	WB,IHC,IF,IP	H,M
AP0245	Phospho-H2AFX-S139	WB	H,M
AP0099	Phospho-H2AFX-S139	WB,IF	H
AP0617	Phospho-H2AFX-S2	WB	H,R
AP0201	Phospho-HDAC2-S394	WB,IHC,IF	H,M,R
AP0280	Phospho-HDAC4-S246/ HDAC5-S259/HDAC9-S220	WB,IHC	H
AP0359	Phospho-HDAC4-S632	WB	H,M,R
AP0202	Phospho-HDAC5-S498	WB,IHC	H,M,R
AP0360	Phospho-HDAC8-S39	IHC,IF	H,M,R
AP0197	Phospho-HIST1H3J-S10	WB,IHC	H,M,R
AP0361	Phospho-HIST1H3J-T11	WB	H,M,R
AP0638	Phospho-Histone H1.3-T17/ Histone H1.4-T17	WB,IHC,IF	H,M,R
AP0640	Phospho-Histone H2AFX-S139	WB,IHC	H,M,R
AP0486	Phospho-Histone H3.3-S32	WB	H,M,R
AP0639	Phospho-Histone H3-S10	WB,IHC,IF,IP	H,M,R
AP0097	Phospho-Histone H3-S28	WB,IF	H,M,R
AP0093	Phospho-Histone H3-T11	WB,IF	H,M,R
AP0362	Phospho-HNF4A-S304	WB	H
AP0363	Phospho-HSF1-S303	WB,IHC	H
AP0364	Phospho-HSF1-S307	WB,IF	H
AP0203	Phospho-HSP90AB1-S254	WB	H,M,R
AP0189	Phospho-HSPB1-S15	WB,IHC,IF	H
AP0040	Phospho-HSPB1-S15	WB,IHC,IP	H,M,R
AP0236	Phospho-HSPB1-S78	WB,IHC,IF	H
AP0237	Phospho-HSPB1-S82	WB,IHC	H
AP0041	Phospho-HSPB1-S82	WB,IHC,IF,IP	H,R
AP0365	Phospho-ICAM1-Y512	WB	H
AP0366	Phospho-IFNAR1-S535/S539	WB	H
AP0367	Phospho-IGF1R-Y1161	WB,IHC,IF	H,M,R
AP0155	Phospho-IGF1R-Y1165/Y1166	WB,IF	H,M,R
AP0368	Phospho-IGF1R-Y1280	WB	H,M,R
AP0369	Phospho-IKKBK-Y199	IF	H,M,R
AP0370	Phospho-IL10RA-S319/S323	WB	H
AP0044	Phospho-INSR-Y1150/ IGF1R-Y1135	WB	H,M,R
AP0091	Phospho-IRF3-S386	WB,ICC	H
AP0623	Phospho-IRF3-S396	WB	H,M
AP0371	Phospho-IRS1-S307	IHC	H,M,R
AP0181	Phospho-IRS1-S312	WB	H
AP0225	Phospho-IRS1-S636	WB	H,M
AP0226	Phospho-IRS1-S639	WB	H
AP0372	Phospho-ITGB3-Y773	WB,IHC	H,M
AP0252	Phospho-ITGB3-Y785	WB	H,M
AP0614	Phospho-IkBa-S32/36	WB	H
AP0373	Phospho-JAK2-Y1007	WB	H
AP0374	Phospho-JAK2-Y221	IHC	H,M,R
AP0631	Phospho-JNK1/2/3-T183/ T221	WB,IHC,IF,IP	H,M,R
AP0808	Phospho-JNK-T183/Y185	WB,IHC,IP	H,M,R

Catalog	Name	Applications	Cross-Reactivity
AP0375	Phospho-JUNB-S259	WB,IHC	H,M,R
AP0376	Phospho-JUNB-S79	IHC,IF	H,M,R
AP0377	Phospho-JUND-S255	WB,IHC	H,M,R
AP0126	Phospho-JUN-S243	WB	H
AP0050	Phospho-JUN-S243	WB,IF	H,M
AP0048	Phospho-JUN-S63	WB,IF	H
AP0119	Phospho-JUN-S73	WB	H
AP0047	Phospho-JUN-S73	WB,IF	H,M
AP0378	Phospho-JUN-T239	WB	H
AP0049	Phospho-JUN-T239	WB,IF	H
AP0379	Phospho-JUN-T91	WB	H
AP0380	Phospho-JUN-T93	WB	H
AP0381	Phospho-JUN-Y170	WB	H
AP0283	Phospho-KDR-Y1059	WB	H
AP0382	Phospho-KDR-Y1175	WB,IHC,IF	H,M,R
AP0383	Phospho-KDR-Y1214	WB	H
AP0385	Phospho-KIT-Y721	WB	H,M,R
AP0286	Phospho-KIT-Y936	WB,IHC	H,R
AP0263	Phospho-KRT18-S53	WB,IHC	H
AP0386	Phospho-KRT8-S74	WB,IF	H
AP0487	Phospho-KSR1-S392	WB	H,M,R
AP0488	Phospho-KSR1-S404	WB	H,M,R
AP0182	Phospho-LCK-Y394	WB	H,M
AP0491	Phospho-LCK-Y416/FYN-Y416	WB	H
AP0387	Phospho-LIMK1-T508	WB,IHC,IF	H,M,R
AP0388	Phospho-LIMK2-T505	WB,IHC,IF	H,M,R
AP0777	Phospho-LMNA-S22	WB	H,R
AP0064	Phospho-MAP2K1-pS221	WB	H,M,R
AP0209	Phospho-MAP2K1-S217/ MAP2K2-S221	WB,IHC	H,M,R
AP0188	Phospho-MAP2K1-S221	WB,IHC,IF	H,M,R
AP0063	Phospho-MAP2K1-S298	WB,IP	H,M,R
AP0065	Phospho-MAP2K1-T286	WB	H,M,R
AP0258	Phospho-MAP2K1-T291	WB	H,M,R
AP0121	Phospho-MAP2K2-T394	WB,IHC,IF	H,M,R
AP0389	Phospho-MAP2K3-S189	WB,IHC,IF	H,R
AP0541	Phospho-MAP2K4-S257/T261	WB	H
AP0390	Phospho-MAP2K4-S80	WB,IHC,IF	H,M,R
AP0391	Phospho-MAP2K4-T261	IHC,IF	H,M,R
AP0392	Phospho-Map2k5-S311/T315	WB	H,M,R
AP0393	Phospho-MAP2K6-S207	WB,IHC,IF	H,R
AP0058	Phospho-MAP3K5-S1033	WB	H,M,R
AP0394	Phospho-MAP3K5-S83	WB,IHC	H
AP0194	Phospho-MAP3K5-S966	WB,IHC	H,M
AP0061	Phospho-MAP3K5-T918	WB	H,M,R
AP0071	Phospho-MAP3K7-S412	WB	H
AP0238	Phospho-MAPK14-T180	WB	H
AP0056	Phospho-MAPK14-T180	WB,IF	H,R
AP0297	Phospho-MAPK14-T180/Y182	WB	H,R
AP0239	Phospho-MAPK14-Y182	WB,IHC	H,M,R
AP0055	Phospho-MAPK14-Y322	WB,IF	H,M
AP0234	Phospho-MAPK3-T202	WB,IHC,IF	H,M,R
AP0235	Phospho-MAPK3-Y204	WB,IHC,IF	H,M,R
AP0276	Phospho-MAPK8-T183/ Y185 + MAPK9-T183/Y185 + MAPK10-T221/Y223	WB,IF	H,M,R
AP0395	Phospho-MAPK9/MAPK10-T183	WB,IHC	H,M,R
AP0396	Phospho-MAPKAPK2-T334	WB,IHC,IF	H,M,R
AP0169	Phospho-MAPT-S214	WB	H,M,R
AP0167	Phospho-MAPT-S235	WB	H,M,R
AP0397	Phospho-MAPT-S262	WB,IHC,IF	H,M,R
AP0162	Phospho-MAPT-S356	WB,IF	H,M,R
AP0163	Phospho-MAPT-S396	WB,IHC	H,M,R

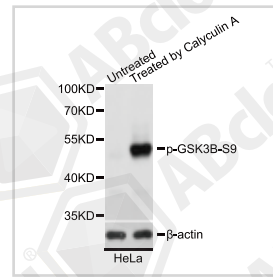
Catalog	Name	Applications	Cross-Reactivity
AP0170	Phospho-MAPT-S404	WB,IHC,IF	H,M,R
AP0294	Phospho-MAPT-S416	WB	M,R
AP0398	Phospho-MAPT-S422	WB	H,M,R
AP0399	Phospho-MAPT-T181	WB,IHC	H,M,R
AP0168	Phospho-MAPT-T205	WB,IHC	H,M,R
AP0400	Phospho-MAPT-T212	WB	H,M,R
AP0401	Phospho-MAPT-T231	WB,IHC	H,M,R
AP0402	Phospho-MARCKS-S158	WB,IF	H,M,R
AP0403	Phospho-MARCKS-S162	WB,IF	H,M,R
AP0404	Phospho-MARCKS-S170	WB,IHC	H
AP0072	Phospho-MAX-S11	WB,IF	H
AP0293	Phospho-MDM2-S166	WB,IHC,IF	H
AP0073	Phospho-MDM2-S166	WB,IF	H,M,R
AP0405	Phospho-MEF2A-S408	IHC	H,M,R
AP0406	Phospho-MEF2A-T312	IHC,IF	H,M,R
AP0407	Phospho-MEF2A-T319	IF	H,M,R
AP0075	Phospho-MEF2C-S396	WB,IF	H
AP0222	Phospho-MET-Y1234	WB	H,M,R
AP0408	Phospho-MET-Y1234/Y1235	WB	H,M,R
AP0230	Phospho-MET-Y1349	WB	H,M,R
AP0544	Phospho-MKKN1-T197/202	WB	H
AP0409	Phospho-mTOR-S2448	WB,IHC,IF	H
AP0094	Phospho-mTOR-S2448	WB	H,M,R
AP0132	Phospho-MYC-S373	WB	H
AP0410	Phospho-MYC-S62	IF	H,M,R
AP0411	Phospho-MYC-T358	WB	H
AP0131	Phospho-MYC-T58	WB	H
AP0412	Phospho-MYL12A-S18	WB,IHC	H,M,R
AP0150	Phospho-MYOD1-S200	WB	H,M,R
AP0413	Phospho-NBN-S343	WB	H
AP0807	Phospho-NDRG1-S330	WB	H,M
AP0792	Phospho-NDRG1-T346	WB	H,M
AP0414	Phospho-NF2-S518	WB,IF	H,M,R
AP0634	Phospho-NFE2L2-S40	WB,IHC,IF,IP	H
AP0125	Phospho-NFKB1-S337	WB,IHC,IF	H,M,R
AP0415	Phospho-NFKB1-S893	IHC,IF	H
AP0416	Phospho-NFKB1-S907	WB	H
AP0417	Phospho-NFKB1-S932	WB,IHC	H,M,R
AP0418	Phospho-NFKB2-S866	WB,IHC,IF	H,M,R
AP0419	Phospho-NFKB2-S870	WB	H
AP0420	Phospho-NFKBIA-Y42	WB	H
AP0262	Phospho-NFKBIB-S23	IHC	H,M,R
AP0212	Phospho-NFKBIE-S22	WB,IHC	H,M
AP0421	Phospho-NOS3-S1177	WB,IHC,IF	H,M,R
AP0272	Phospho-NTRK1-S791	WB,IF	H,M,R
AP0422	Phospho-NTRK2-Y515	IF	H,M,R
AP0423	Phospho-NTRK2-Y705	WB	H,M,R
AP0424	Phospho-OPRM1-S375	WB	H,M,R
AP0083	Phospho-TP53-S15	WB,IF	H
AP0476	Phospho-TP53-S46	WB,IP	H
AP0085	Phospho-TP53-S9	WB,IF	H
AP0562	Phospho-P90RSK-S380	WB,IP	H
AP0186	Phospho-PAK1-T212	WB,IHC,IF	H,M,R
AP0425	Phospho-PAK1-T423/PAK2-T402/ PAK3-T421	IHC,IF	H,M,R
AP0803	Phospho-PAK2-S20	WB	H,M
AP0615	Phospho-PDGFRA-Y1018	WB	H
AP0568	Phospho-PDGFRA-Y754	WB	H
AP0569	Phospho-PDGFRA-Y849	WB	H
AP0426	Phospho-PDPK1-S241	WB,IHC,IF	H,M,R
AP0788	Phospho-PEA15-S104	WB	H,M,R
AP0147	Phospho-PGR-S190	WB,IHC,IF	H

Catalog	Name	Applications	Cross-Reactivity
AP0427	Phospho-PIK3R1/PIK3R2/ PIK3R3-Y467	WB	H,M,R
AP0613	Phospho-PKC (pan) (gamma)-T514	WB	H
AP0520	Phospho-PKC (pan) (zeta)-T410	WB	H
AP0495	Phospho-PKC (pan) (β1 Ser660)	WB	H,M,R
AP0496	Phospho-PKcδeta-Y311	WB	H,M
AP0567	Phospho-PKCδ/θ-S643/676	WB	H
AP0428	Phospho-PKM2-S37	WB	H
AP0827	Phospho-PLCG1-S1248	WB	H,M,R
AP0281	Phospho-PLCG1-Y771	WB,IF	H,M,R
AP0164	Phospho-PLCG1-Y783	WB	H,M,R
AP0429	Phospho-PLCG2-Y1217	IHC	H,M,R
AP0805	Phospho-PLCG2-Y1217	WB	H,M
AP0785	Phospho-PLCG2-Y759	WB	H
AP0749	Phospho-POLR2A-S2	WB	H
AP0828	Phospho-POLR2A-S5	WB	H,M
AP0786	Phospho-PPP1CA-T320	WB	H,M
AP0769	Phospho-PPP1R12A-S507	WB	H
AP0430	Phospho-PPP1R1B-T75	IF	H,M,R
AP0619	Phospho-PRKAA1-S496	WB,IHC,IF	H
AP0432	Phospho-PRKAA1-T183/ PRKAA2-T172	WB,IHC	H,M,R
AP0557	Phospho-PRKACA-T197	WB	H
AP0191	Phospho-PRKCB-T641	WB,IHC,IF	H,M,R
AP0259	Phospho-PRKCD-S645	WB,IHC	H,M,R
AP0776	Phospho-PRKCD-T505	WB	H
AP0260	Phospho-PRKCQ-S676	WB,IHC,IF	H,M,R
AP0192	Phospho-PRKCQ-S695	WB,IHC	H,M,R
AP0433	Phospho-PRKCZ-T410	IHC	H,M,R
AP0151	Phospho-PRKD1-S738	WB,IF	H,M,R
AP0159	Phospho-PRKD1-S910	WB,IF	H,M,R
AP0434	Phospho-PRKDC-T2609	WB	H
AP0435	Phospho-PTEN-S370	WB	H
AP0436	Phospho-PTEN-S380	IHC,IF	H,M,R
AP0141	Phospho-PTEN-S380/T382/T383	WB,IHC,IF	H,M,R
AP0214	Phospho-PTK2B-Y402	WB,IHC,IF	H,M,R
AP0437	Phospho-PTK2-Y397	WB	H,R
AP0290	Phospho-PTK2-Y576/Y577	WB	H
AP0142	Phospho-PTK2-Y861	WB	H
AP0438	Phospho-PTK2-Y925	WB	H
AP0267	Phospho-PTPN11-Y542	WB,IHC	H,M,R
AP0439	Phospho-PTPN11-Y580	IHC	H,M,R
AP0440	Phospho-PTPN6-Y536	IHC,IF	H,M,R
AP0156	Phospho-PXN-Y118	WB,IHC	H,M,R
AP0206	Phospho-PXN-Y31	WB	H,M,R
AP0441	Phospho-PXN-Y88	WB,IF	H
AP0442	Phospho-RAC1-S71	WB	H,M,R
AP0086	Phospho-RAC1-S71	WB	H,R
AP0498	Phospho-RAF1-pS338	WB	H,M,R
AP0443	Phospho-RAF1-S259	WB	H
AP0497	Phospho-RAF1-S259	WB	H,M
AP0087	Phospho-RAF1-S621	WB,IF,IP	H
AP0570	Phospho-RB1-S608	WB	H
AP0444	Phospho-RB1-S780	WB	H,M
AP0174	Phospho-RB1-S795	WB	H
AP0175	Phospho-RB1-S807	WB	H,M
AP0642	Phospho-RB1-S807	WB,IHC,IF	H,M,R
AP0484	Phospho-Rb-S807/811	WB	H
AP0089	Phospho-Rb-S811	WB,IF	H
AP0123	Phospho-RELA-S276	WB,IHC,IF	H,M,R
AP0445	Phospho-RELA-S311	WB	H
AP0446	Phospho-RELA-S468	WB	H,M
AP0215	Phospho-RELA-S529	WB	H

Catalog	Name	Applications	Cross-Reactivity
AP0124	Phospho-RELA-S536	WB,IHC,IF	H,M,R
AP0122	Phospho-RELA-T254	WB	H,M
AP0447	Phospho-RELA-T435	WB,IHC,IF	H
AP0190	Phospho-RELA-T505	WB	H
AP0240	Phospho-RELB-S573	WB,IHC	H,M
AP0448	Phospho-REL-S503	IF	H
AP0171	Phospho-RPS6KA1-S352	WB	H
AP0166	Phospho-RPS6KA1-T348	WB,IHC,IF	H,M,R
AP0767	Phospho-RPS6KA1-T359	WB	H,R
AP0800	Phospho-RPS6KA5-S376	WB	H,M,R
AP0538	Phospho-RPS6KB1-S235/236	WB	H,M,R
AP0537	Phospho-RPS6KB1-S240/244	WB,IP	H,M
AP0246	Phospho-RPS6KB1-S411	WB,IHC,IF	H,M,R
AP0253	Phospho-RPS6KB1-S424	WB,IHC,IF	H,M,R
AP0449	Phospho-RPS6KB1-T421	WB,IHC,IF	H,M,R
AP0227	Phospho-RPS6-S235	WB	H,R
AP0296	Phospho-RPS6-S235/236	WB	H
AP0112	Phospho-RYR2-S2809	WB	H,M,R
AP0624	Phospho-RYR2-S2814	WB	H
AP0625	Phospho-RYR2-S2830	WB	H
AP0265	Phospho-SHC1-Y349	WB,IF	H,M
AP0266	Phospho-SHC1-Y427	WB,IHC,IF	H,M,R
AP0295	Phospho-SMAD1-S206	WB	H,M,R
AP0268	Phospho-SMAD1-S465	WB	H,M,R
AP0548	Phospho-SMAD2-S465/467/- Smad3-S423/425	WB	H,M
AP0269	Phospho-SMAD2-S467	WB	H,M,R
AP0270	Phospho-SMAD2-T220	WB	H
AP0630	Phospho-SMAD3-S423/S425	WB,IHC,IF	H,M
AP0629	Phospho-SMAD5-S463/465	WB,IHC,IF	H,M,R
AP0204	Phospho-SMC1A-S957	WB,IHC	H,M
AP0090	Phospho-SMC1A-S957	WB,IHC,IF,IP	H
AP0450	Phospho-SNCA-S129	WB	H,M,R
AP0241	Phospho-SNCA-Y125	WB,IF	H,M
AP0451	Phospho-SNCA-Y133	WB,IF	H,M,R
AP0254	Phospho-SNCA-Y136	WB,IF	H,M,R
AP0231	Phospho-SP1-T739	WB	H,M,R
AP0829	Phospho-SRF-S103	WB	H,M,R
AP0453	Phospho-STAT1-S727	WB,IHC,IF	H,M,R
AP0109	Phospho-STAT1-S727	WB	H
AP0135	Phospho-STAT1-Y701	WB,IHC	H,M,R
AP0136	Phospho-STAT3-S727	WB	H
AP0070	Phospho-STAT3-Y705	WB,IF	H,R
AP0137	Phospho-STAT4-Y693	WB,IHC	H,M,R
AP0139	Phospho-STAT5A-S780	WB	H
AP0455	Phospho-STAT6-T645	IHC	H
AP0456	Phospho-STAT6-Y641	WB,IHC	H
AP0601	Phospho-STK11-S334	WB	H
AP0603	Phospho-STK11-T189	WB	H
AP0229	Phospho-STMN1-S16	WB	H,M
AP0220	Phospho-STMN1-S25	WB,IHC	H,M,R
AP0221	Phospho-STMN1-S38	WB,IHC	H,M,R
AP0457	Phospho-SUFU-S342	WB	H
AP0291	Phospho-SYK-Y323	WB,IHC,IF	H
AP0501	Phospho-Syk-Y352/ZAP70-Y319	WB	H
AP0542	Phospho-Syk-Y525/526	WB	H
AP0458	Phospho-SYN1-S549	WB	H,M,R
AP0244	Phospho-SYN1-S9	WB,IF	H,M,R
AP0459	Phospho-SYT1-S309	IF	H,M,R
AP0460	Phospho-SYT2-T202	IF	H,M,R
AP0461	Phospho-TH-S19	IF	H,R
AP0210	Phospho-TH-S31	WB	H,R
AP0211	Phospho-TH-S40	IF	H,M,R

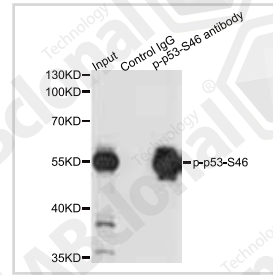
Catalog	Name	Applications	Cross-Reactivity
AP0589	Phospho-TNK2-Y284	WB	H
AP0158	Phospho-TP53-S15	WB	H
AP0462	Phospho-TP53-S315	WB	H
AP0762	Phospho-TP53-S33	WB,IP	H
AP0463	Phospho-TP53-S37	WB	H
AP0641	Phospho-TP53-S392	WB,IHC,IF,IP	H,M,R
AP0161	Phospho-TP53-S46	WB	H
AP0157	Phospho-TP53-S6	WB	H
AP0464	Phospho-TP53-T18	WB	H
AP0465	Phospho-TP73-Y99	WB	H
AP0466	Phospho-TYK2-Y1054	WB	H
AP0654	Phospho-ULK1-S423	WB	H,M,R
AP0213	Phospho-VASP-S157	WB,IHC	H,M,R
AP0763	Phospho-VASP-S157	WB,IP	H,R
AP0187	Phospho-VASP-S239	WB,IHC	H,M,R
AP0180	Phospho-VAV1-Y174	WB	H,M,R
AP0806	Phospho-VIM-S39	WB	H,M,R
AP0804	Phospho-VIM-S56	WB	H,R
AP0799	Phospho-VIM-S83	WB	H,R
AP0195	Phospho-YWHAZ-S58	WB,IHC,IF	H,M,R
AP0467	Phospho-ZAP70-Y319	WB,IHC,IF	H,M,R
AP0468	Phospho-ZAP70-Y493	WB,IHC	H,M,R

AP0039



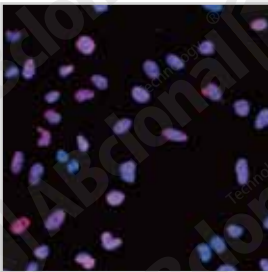
Phospho-GSK3B-S9 pAb

AP0476



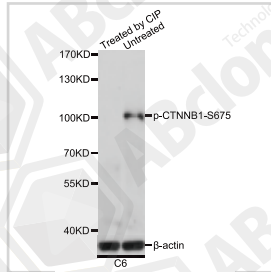
Phospho-p53-S46 pAb

AP0004



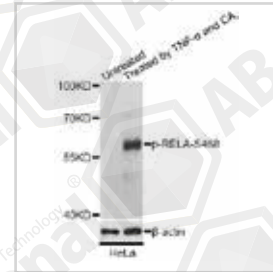
Phospho-AKT1-T450 pAb

AP0795



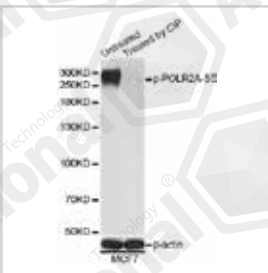
Phospho-CTNNB1-S675 pAb

AP0446



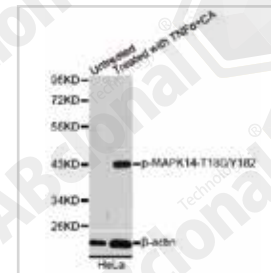
Phospho-RELA-S468 pAb

AP0828



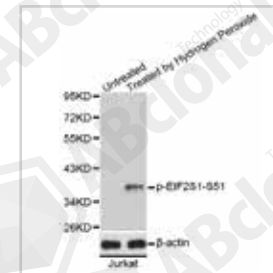
Phospho-POLR2A-S5 pAb

AP0297



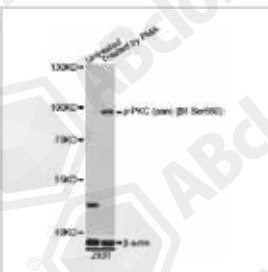
Phospho-MAPK14-T180/Y182 pAb

AP0342



Phospho-EIF2S1-S51-1 pAb

AP0495



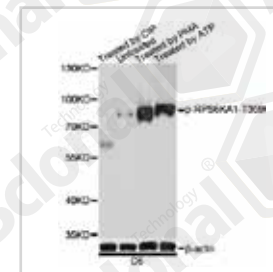
Phospho-PKC (pan) (βII Ser660) pAb

AP0070



Phospho-Stat3-Y705 pAb

AP0767



Phospho-RPS6KA1-T359 pAb

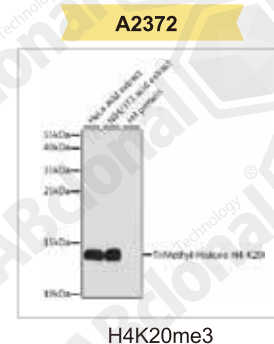
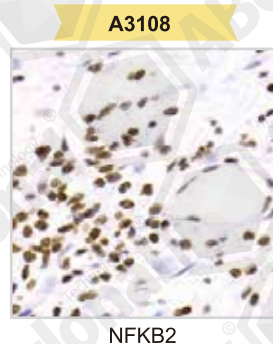
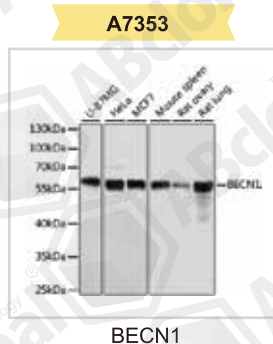
Antibodies for Popular Research



- ABclonal has an animal research base that can hold more than 4,000 standard-sized cultivation cages. With our professional R&D team, ABclonal has produced more than 10,000 rabbit polyclonal antibodies on-site, including those that are useful in popular research areas such as epigenetics, apoptosis, autophagy, RNA-binding proteins, DNA damage/repair, NF- κ B, and Hippo pathway.

Antibodies can be used for the following areas.

- Apoptosis
- Autophagy
- DNA Damage/Repair
- Epigenetics & Nuclear Signaling
- RNA-Binding Protein
- Hippo Signaling Pathway
- NF- κ B Signaling Pathway



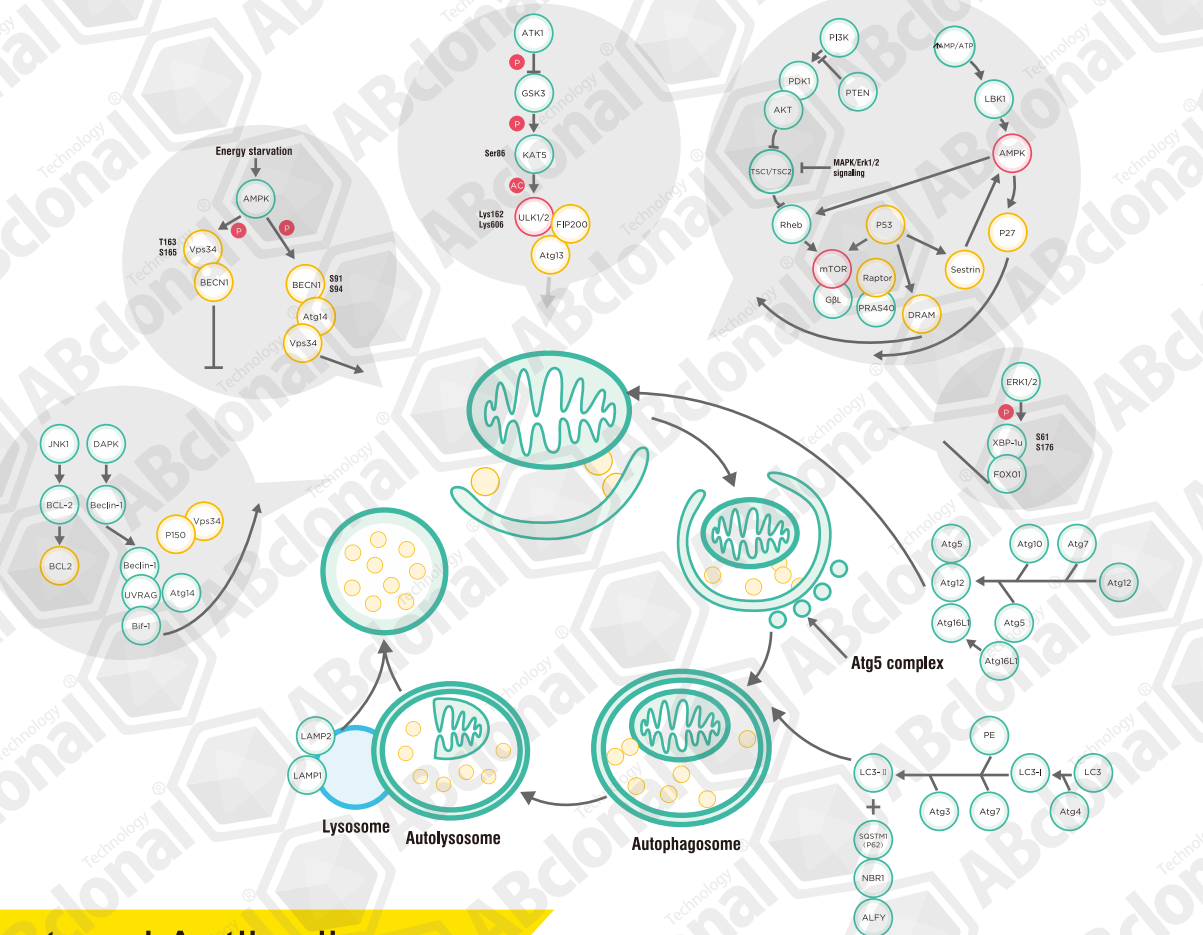
ABCLONAL IS COMMITTED TO DEVELOPING AND CONTRIBUTING TO THESE FEATURED RESEARCH AREAS BY AIMING TO HAVE THE MOST COMPREHENSIVE PRODUCTS CATALOG AND THE STRONGEST PARTNERSHIPS.



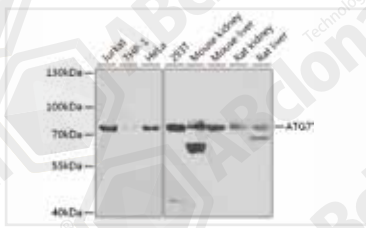
Autophagy

Cell autophagy is a highly conservative process in eukaryotes, in which proteins from the ATF family play a key role. Other proteins such as mTOR, beclin, and FoxO are also important in terms of regulatory mechanisms in autophagy. LC3 protein is a central indicator of cellular autophagy. It undergoes post-translational modification during the process. LC3 carboxy-terminal cleavage forms LC3-I (16KD) and is then lipidated to LC3-II (14KD) - the key protein in autophagy formation. The concentration of LC3-II determines the level of autophagy.

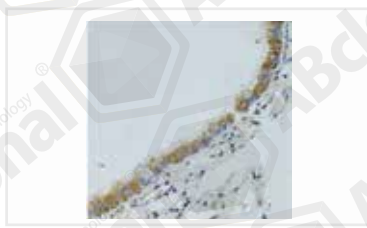
Through cell autophagy, organisms can maintain intracellular homeostasis and gain access to the corresponding energy and nutrients. Like apoptosis and cell senescence, autophagy is a very important part in biological development, growth, and other process. Autophagy abnormalities can lead to cancer and other diseases, hence autophagy has been a popular scientific area for a long time.



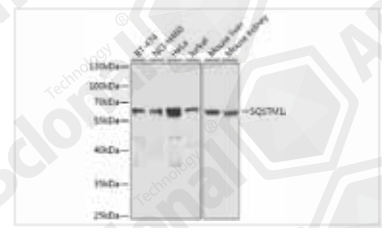
Featured Antibodies



A0691 ATG7



A11427 ATG5



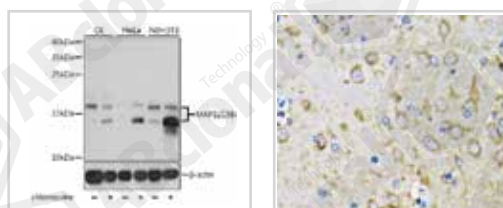
A7758 p62/SQSTM1

Autophagy Antibody List

Catalog	Name	Applications	Cross-Reactivity
A12578	AMBRA1	WB	M
A1083	AMBRA1	WB,IHC	H,M,R
A1736	ARSA	WB	H,M
A8886	ARSB	WB,IHC	H
A8078	ATG12	WB,IHC,IF	H
A8033	ATG12	WB,IHC,IF	H
A0690	ATG13	WB,IHC,IF	H,M,R
A11969	ATG16L1	WB	H
A8498	ATG2B	WB	H,M,R
A5809	ATG3	WB,IHC	H,M
A2598	ATG4A	WB	H,M
A2837	ATG4B	WB	H
A7396	ATG4C	WB	H
A7842	ATG4D	WB,IF	H,M,R
A0203	ATG5	WB,IHC	H,R
A7252	ATG5	WB,IHC,IF	H,M
A0691	ATG7	WB,IHC	H,M,R
A7994	ATG9A	WB	H,M,R
A7406	ATG9B	WB,IHC	H,M,R
A1104	BAG1	WB,IHC,IF	H,M
A0208	BCL2	WB,IHC	H,M,R
A2212	BCL2	WB,IHC,IP,FC	H,M,R
A10101	BECN1	WB	H,M,R
A11761	BECN1	WB	H,M,R
A7353	BECN1	WB,IF	H,M,R
A0584	BNIP3	WB,IHC,IF	H,M
A5683	BNIP3	WB,IHC	H,M,R
A13583	Eif2ak2	IHC	H,R
A4047	EIF2AK2	WB,IHC	H,M
A5578	Eif2ak2	WB,IHC,IF	H,M
A8070	EVA1A	WB	H,M,R
A12568	GABARAP	WB,IHC	H,M,R
A7790	GABARAPL1	WB	H,M,R
A4887	GOPC	WB,IHC	H,M
A7513	GOPC	WB,IF	H,M,R
A2288	HDAC6	WB,IHC	H,M
A1732	HDAC6	WB,IHC	H,M,R
A11259	HDAC6	WB,IHC,IP	H,M,R
A10968	IRGM	WB,IHC	H,M,R
A2582	LAMP1	WB,IHC,IF	H,M
A10959	LRRK2	WB,IHC,FC	H
A11438	MAP1LC3A	WB,IHC	M,R
A5618	MAP1LC3A	WB,IF	H,M,R
A11428	MAP1LC3A	WB,IHC,IF,IP	H,M,R
A2347	MAP1LC3B	WB,IF	H,M,R
A7198	MAP1LC3B	WB,IHC	H,M,R,P
A11280	MAP1LC3B	WB,IHC,IF	H,M,R
A11282	MAP1LC3B	WB,IHC	H,M,R,P
A11923	MAP1LC3B	WB,IHC,IF,IP,FC	H,M,R
A8295	MAP1LC3C	WB	H,R
A13599	MLST8	WB,IF	H,M,R
A1059	MLST8	WB	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A11354	MTOR	WB,IHC,IF	H,M,R
A2445	MTOR	WB,IF,IP	H,M,R
A11355	MTOR	WB,IHC	H,M,R
A0380	MTOR	WB,IHC,IF	H
A11928	MTOR	WB,IHC,IF,IP	H,M,R
A4021	PIK3C3	WB,IHC,IF	H,M
A12483	PIK3C3	WB	H,M,R
A12982	PIK3C3	WB	M,R
A4686	PIK3R4	WB,IHC	H
A1229	PRKAA1	WB,IF	H,M,R
A0792	PRKAA2	WB	H
A7339	PRKAA2	WB,IHC,IF	H,M,R
A0846	PRKAB1	WB,IHC,ICC,IP	H,M,R
A7921	PRKAB1	WB,IHC	H,M,R
A4042	PRKAB1	WB,IHC	H,M
A12491	PRKAB1	WB,IHC	H
A0050	PSEN1	WB,IHC,IF,FC	H,M
A8394	RAB24	WB,IHC	H,M,R
A8300	RPTOR	WB,IHC	H,M,R
A9464	KIAA0226	WB,IHC,FC	H
A4709	SH3GLB1	WB,IHC	H
A14887	SH3GLB1	WB	M,R
A11483	SQSTM1	WB,IHC,IF,IP	H
A11247	SQSTM1	WB,IHC,IF	H,M,R
A11246	SQSTM1	WB,IF	H
A7758	SQSTM1	WB,IHC,IF	H,M,R
A11250	SQSTM1	WB	H,M,R
A0844	STK11	WB,IHC,IF,FC	H
A2122	STK11	WB,IHC,IF	H,M,R
A0825	SUMO1	WB,IHC,IF,FC	H
A11230	SUMO1	WB,IHC,IF,IP	H,M,R
A2130	SUMO1	WB,IHC,IF	H,M,R
A7461	TM9SF1	WB,IHC	H,M,R
A15243	ULK2	WB	H,R
A15244	ULK2	WB	H,M
A8462	UVRAG	WB,IHC	H,M,R
A7528	WIPI1	WB,IHC	H,M,R
A7537	WIPI2	WB,IHC	H,M,R
A4610	WIPI2	WB,IHC	H,M

A7198 MAP1LC3B



Apoptosis Antibody List

Catalog	Name	Applications	Cross-Reactivity
A0282	ABL1	WB,IHC,IF	H,M,R
A2807	ACIN1	WB	H,M,R
A6507	ACTC1	WB,IHC,IF	H,M
A1160	ACTN1	WB,IHC	H,M,Mk
A3718	ACTN2	WB,IF	H,M,R
A12797	ACTN3	WB,IF	H
A5453	ACVR1B	WB	H,M
A0678	ACVR1C	WB,IHC	H,M,R
A10438	ADAM10	WB	H,M,R
A9578	ADAM8	WB	H
A1587	ADORA2A	WB	H,M,R
A1471	ADRA1A	WB	H,M,R
A7873	ADRA1A	WB	H,M,R
A6279	AGT	WB	H,M,R
A6347	AGTR2	IHC	H,M,R
A1451	AHR	WB,IHC	H,M,R
A0811	AIFM1	WB,IHC,IF,FC	H
A2568	AIFM1	WB,IHC,IF	H,M
A5301	AIMP1	WB,IHC,IF	H,M,R
A3723	AK2	WB,IHC	H,M
A6519	AK2	WB,IHC	H,M,R
A0001	AKT1	WB	H
A0205	AKT1	WB,IHC	H,R
A11016	AKT1	WB,IHC,IF	H,M,R
A10605	AKT1	WB	H
A11027	AKT1	WB,IHC,IF,IP	H,M,R
A11915	AKT1	WB,IHC,IF,IP,FC	H,M,R,Z
A11822	AKTIP	WB	H
A0353	ALB	WB,IHC	H,M,R
A1363	ALB	WB,IHC	H,M,R
A7067	ALDH1L1	WB	H,M,R
A6865	ALOX15B	WB,IF	H,M
A14902	ANKHD1	WB,IHC	H
A8224	ANKHD1	WB	H,M,R
A5768	ANP32A	WB,IHC,IF	H,M,R
A4432	ANP32B	WB	H
A0767	ANXA1	WB,IHC,FC	H
A1118	ANXA1	WB,IHC,IF	H,M
A13466	ANXA4	WB,IF	H,M
A6280	ANXA4	WB	H,M,R
A1728	ANXA5	WB	H,M
A2980	API5	WB,IHC	H,M
A2644	APIP	WB,IHC	H,M,R
A7102	APIP	WB	H,M,R
A2634	APLP1	WB,IHC	H,M,R
A6870	APLP1	WB,IF	H,M,R
A0206	APP	WB,IHC	H
A3161	APP	WB	H,M
A11912	APP	WB,IHC,ICC,IF,IP,FC	H,M,R
A4606	APPL1	WB	H,M,R
A9427	ARMC10	WB	H
A7985	ASAH2	WB,IHC	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A12596	ASAH2	WB	H,M,R
A8078	ATG12	WB,IHC,IF	H
A8033	ATG12	WB,IHC,IF	H
A0203	ATG5	WB,IHC	H,R
A7252	ATG5	WB,IHC,IF	H,M
A0691	ATG7	WB,IHC	H,M,R
A6530	ATOH1	WB,IF	H,M
A2843	AVEN	WB	H,M,R
A12910	AVEN	WB	H
A0583	AXIN1	WB,IHC	H
A8546	B4GALT1	WB	H
A1593	BAD	WB,IHC,IF	H,M,R
A0741	BAD	WB,IHC	H
A10753	BAD	WB,IHC,IF,IP	H,M,R
A1104	BAG1	WB,IHC,IF	H,M
A7763	BAG2	WB,IHC,IF	H,M,R
A7417	BAG3	WB	H
A14826	BAG3	WB	H,M
A8942	BAG4	WB	H
A2645	BAG5	WB	H,M,R
A5794	BAG5	WB,IHC	H,M,R
A2010	BAG6	WB	H,M,R
A0497	BAK1	WB,IHC	H
A0498	BAK1	WB,IHC	H,M,R
A0204	BAK1	WB,IF	H,M,R
A10754	BAK1	WB,IHC,IF,IP	H,M
A2211	BAX	WB	H,Mk
A0207	BAX	WB,IHC	H,M
A11550	BAX	WB,IHC,IF	H
A12009	BAX	WB,IHC,IF	H,M,R
A11931	BAX	WB,IHC,IF,IP,FC	H,M,R
A2846	BBC3	WB	H,M,R
A11374	BBC3	WB,IHC,IF	H,M,R
A6335	BCAP29	WB,IHC	H,M,R
A7056	BCAP31	WB,IF	H,M,R
A0855	BCAR1	WB,IHC	H,M,R
A0191	BCL10	WB,IHC,IF,FC	H,M
A1106	BCL10	WB	H
A0208	BCL2	WB,IHC	H,M,R
A2212	BCL2	WB,IHC,IP,FC	H,M,R
A0134	BCL2A1	WB,IHC,FC	H,M,R
A0209	BCL2L1	WB	H,M,R
A2469	BCL2L11	WB,IHC,FC	H
A2647	BCL2L15	WB,IHC	H
A11582	BCL3	WB,IHC	H,M
A7173	BCL6	WB,IF	H,M,R
A15234	BCLAF1	WB,IHC	H
A1307	BDNF	WB,IF	H,M,R
A10760	BDNF	WB,IHC	H,M,R
A11930	BDNF	WB,IHC,IF	H,R
A10101	BECN1	WB	H,M,R
A11761	BECN1	WB	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A7353	BECN1	WB,IF	H,M,R
A8308	BFAR	WB	H,M,R
A0210	BID	WB	H,M,R
A0728	BID	WB,IHC	H,M
A0866	BIRC2	WB,IF	H,M,R
A1551	BIRC5	WB,IF	H,M
A10738	BIRC5	WB,IHC,IP	M,R
A5736	BIRC7	WB	H,M
A12600	BIRC7	WB,IHC,IF	M,R
A7275	BLID	WB,IF	H,M,R
A3767	BNIP1	WB,IHC	H,M
A7263	BNIP1	WB,IHC	H,M,R
A6282	BNIP2	WB,IF	H,M
A0584	BNIP3	WB,IHC,IF	H,M
A5683	BNIP3	WB,IHC	H,M,R
A6283	BNIP3L	WB,IHC	H,M,R
A0038	BRAF	WB,IHC	H,M,R
A15033	BRAF	WB,IHC,IF	H,M,R
A2434	BRAF	WB	H
A10848	BRAF	WB,FC	H
A15122	BRE	WB	H,M,R
A12738	BTK	WB,IHC	H,M,R
A0500	BTK	WB,IP	H,M
A10525	CABLES2	WB	H,M
A10267	CACNA2D2	WB	M,R
A8344	CAD	WB,IHC	H
A1892	CADM1	WB	H,M
A1066	CALR	WB,IF,IP	H,M,R
A4886	CAMK1D	WB,IHC	H
A7140	CARD11	WB,IHC,IF	H,M
A0293	CARD8	WB	H,M,R
A0217	CASP12	WB,IHC	H,M,R
A6541	CASP14	WB,IF	H,M,R
A5724	CASP2	WB,IHC	H,M
A0812	CASP2	WB,IHC,FC	H,M
A10772	CASP2	WB,IHC,IF	H,M,R
A2156	CASP3	WB	H,M,R
A0214	CASP3	WB	H,M,R
A11953	CASP3	WB,IHC,IF	H,M
A11021	Active Caspase-3	WB,IHC,IF	H
A11024	CASP3	WB,IHC,IF,IP	H,R
A11888	CASP3	WB,IHC,IF,IP,FC	H,M,R,Mk
A6495	CASP4	WB,IHC	H,M,R
A12991	CASP6	WB	H
A0716	CASP7	WB,IHC	H,M,R
A1524	CASP7	WB,IHC,IF	H,M,R
A0215	CASP8	WB	H,M
A2436	CASP8	WB,IHC,IF	H
A11324	Casp8	WB,IHC	H,M,R
A12973	CASP8	WB	H
A11451	CASP9	WB,IHC	H,M,R
A2636	CASP9	WB,IHC,IF	H,M,R
A10097	CASP9	WB,IHC	H,M,R
A11910	CASP9	WB,IHC,ICC,IF,IP	H,M
A10780	CAV2	WB,IHC,IF,IP	H
A6334	CCAR1	WB,IP	H
A13595	CCAR1	WB,IF,IP	H
A9920	CCAR2	WB,ICC,IP	H,M,R,Mk
A7277	CCL2	WB,IHC,IF	H,M
A0313	CCL2	WB,IHC,IF,FC	H
A1347	CD14	WB,IHC,IF	H
A5737	CD14	WB	H,M

Catalog	Name	Applications	Cross-Reactivity
A1945	CD27	WB	H,M
A13611	CD38	WB	H,M,R
A1680	CD38	WB	H,M,R
A1753	CD3E	WB,IHC	H,M,R
A12415	CD3E	WB,IHC	H,M,R
A10786	CD3E	WB,IHC,IP	H
A1938	CD3G	WB,IHC,FC	H,M,R
A0218	CD40	WB	H,M,R
A13002	CD40LG	WB	H
A0327	CD40LG	WB,IF	H,M
A6882	CD5	WB	H,M,R
A2032	CD70	WB,IF	H,M
A13958	CD74	WB	H,M
A5667	CD74	WB,IHC	H
A12414	CDC2	WB,IHC	H,M,R
A2861	CDK1	WB,IHC,IF	H,M
A2438	CDK1	WB,IHC,IF	H,R
A0030	CDK1	WB,ICC	H,R
A0220	CDK1	WB,IHC,IF	H,M,R
A12830	CDK11B	WB	H,M
A2689	CDK5	WB,IHC	H,M,R
A5730	CDK5	WB,IF	H,M
A10814	CDK5	WB,IHC,IP	H,M,R
A0197	CDK5R1	WB,IHC	H
A5000	CDK5RAP3	WB	H,M,R
A13128	CDK5RAP3	WB	H
A0319	CDKN1A	WB,IHC,IP	H,R
A1483	CDKN1A	WB	H,M,R
A11877	CDKN1A	WB,IHC,IF,IP	H
A11058	CDKN2A	WB,IF	H
A2440	CDKN2A	WB,IHC	H
A0262	CDKN2A	WB,IF	H
A11920	CDKN2A	WB,IHC,IF,IP,FC	H
A0711	CEBPB	WB	H,M
A7279	CEBPG	WB,IHC,IF	H,M,R
A4935	CERK	WB	H,M
A6325	CFDP1	WB	H,M,R
A0607	CFL1	WB,IHC,FC	H,M,R
A1704	CFL1	WB	H,M,R
A2062	CHUK	WB,IHC,IF	H,M,R
A6336	CIAPIN1	WB,IHC,IF	H,M
A7088	CLIC4	WB,IHC,IF	H,M,R
A1124	CRADD	WB	H,M,R
A1591	CRYAB	WB,IHC	H,M
A13696	CRYAB	WB	H,M,R
A9510	CSE1L	WB	H
A3812	CSNK1D	WB,IHC	H
A0435	CSNK2A1	WB,IHC	H
A2694	CSNK2A1	WB,IHC	H,M,R
A1014	CSNK2A1	WB	H,M,R
A13291	CST3	WB,IHC	H,M
A1561	CST3	WB,IF	H,M,R
A8164	CST7	WB	H
A5686	CSTA	WB,IHC,IF	H
A6572	CTNBL1	WB,IF	H,M,R
A0967	CTSB	WB	H,M,R
A5308	CUL2	WB,IF	H
A2882	CUL4A	WB	H,M
A6199	CUL4A	WB	H,M
A5369	CUL5	WB,IF	H,M
A12534	CXCR4	WB,IHC	H,M,R
A1303	CXCR4	WB	H,M

Catalog	Name	Applications	Cross-Reactivity
A5869	CXCR4	WB,IHC,FC	H,R
A0225	CYCS	WB,IF	H,M,R
A13430	CYCS	WB,IHC	H,M,R
A4632	CYFIP2	WB,IHC	H,M
A14723	DAD1	WB	H,M,R
A6150	DAP	WB,IHC,IF	H,M,R
A2714	DAP3	WB,IHC	H,M,R
A3342	DAP3	WB	H
A7003	DAP3	WB	H,M,R
A5741	DAPK1	WB	H,M
A15047	DAPK3	WB	R
A9372	DCC	WB	H
A6457	DDAH2	WB,IHC,IF	H,M,R
A5817	DDX20	WB,IHC,IF	H,M,R
A6576	DDX41	WB,IHC,IF,IP	H,M,R
A0507	DFFA	WB	H
A1032	DFFA	WB,IF	H,M,R
A12431	DFFA	WB,IHC	H,M
A10110	DFFB	WB	H,M
A5402	DHCR24	WB	H,M
A2564	DIABLO	WB	H,M
A0853	DIABLO	WB,IHC,FC	H
A7030	DNAJA3	WB,IHC	H,M,R
A7052	DNAJB6	WB,IHC,IF	H,M,R
A2586	DNM1L	WB,IHC,IF	H,M
A2470	DNM1L	WB,IF,IP	H,M,R,Mk
A0650	DNM1L	WB	H,M,R
A7890	DNM2	WB	M,R
A0523	DNM2	WB,IHC	H,M,R
A2442	E2F1	WB,IF,IP	H,R
A0051	E2F1	WB	H
A1935	EBAG9	WB,IHC	H,M,R
A8385	EBAG9	WB	H,M
A4461	EDAR	WB	H
A4314	EEF1E1	WB,IF,FC	H,M
A15357	EEF1E1	WB	H,M
A3228	EI24	WB	M
A13583	Eif2ak2	IHC	H,R
A4047	EIF2AK2	WB,IHC	H,M
A5578	Eif2ak2	WB,IHC,IF	H,M
A11938	EIF2AK3	WB,IHC	H,M
A2897	EIF4G2	WB,IHC	H,M,R
A13616	EIF4G2	WB,IHC	H,M,R
A2016	EIF5A	WB,IHC,IF	H,M,R
A14830	ELMO1	WB	H,M
A13785	ELMO2	WB	H,M,R
A7182	ELMO3	WB,IHC	H,M,R
A15001	ELMOD2	WB	M
A14524	ELMOD2	WB	R
A7532	ELMOD3	WB	H,M,R
A0604	END	WB,IHC	H,M,R
A1324	EP300	WB	H
A2917	EPOR	WB,IHC	H,M,R
A9509	ERC1	WB	H
A1332	ERCC2	WB	H
A14563	ERCC2	WB	H,M,R
A15366	ESPL1	WB	H,M,R
A10142	ETHE1	WB	H,M,R
A8070	EVA1A	WB	H,M,R
A1290	F2	WB	H
A5641	F2R	WB	H,M,R
A0759	FADD	WB	H

Catalog	Name	Applications	Cross-Reactivity
A2728	FADD	WB	H,M,R
A5819	FADD	WB,IHC	H,M,R
A7779	FAF1	WB,IHC	H,M,R
A2921	FAF1	WB	H,M,R
A6320	FAIM3	WB	H
A2639	FAS	WB	H,M,R
A0233	FAS	WB,IHC	H,M,R
A0234	FASLG	WB	H,M,R
A7384	FASTKD1	WB,IHC	H,M,R
A12889	FCER1G	WB	M,R
A14731	FGF4	WB	R
A5821	FIS1	WB,IHC,IF	H,M,R
A1268	FKBP8	WB,IF,IP	H,M
A7085	FKBP8	WB,IF,IP	H,M,R
A5644	FLI1	WB,IHC,IP	H,M,R
A2932	FOXL2	WB	H,M,R
A13862	FOXO1	WB	H,M
A2934	FOXO1	WB,IF	H,M
A5942	FXR1	WB	H,M,R
A0836	GADD45A	WB,FC	H
A1168	GAS2	WB,IHC,IF	H,M,R
A1038	GCLC	WB	H,M,R
A13989	GCLM	WB,IHC	H,M
A5314	GCLM	WB,IF	H,M
A4957	GGCT	WB	H
A1932	GLO1	WB,IHC,IF	H,M,R
A6603	GLRX2	WB	H
A8945	GNAQ	WB	H
A14736	GNAQ	WB	H,M,R
A0873	GPX1	WB,IHC,IF,FC	H,M,R
A1939	GRIK2	WB,IF	H,M
A0645	GSK3A	WB	H,M,R
A6164	GSK3B	WB,IHC	H,M,R
A0480	GSK3B	WB	H,M,R
A0479	GSK3B	WB,IHC	H,M,R
A3174	GSK3B	WB	H
A10877	GSK3B	WB,IHC,IF	H,M
A0348	GSTP1	WB,IHC,IF,FC	H,M
A5691	GSTP1	WB,IHC,IF	H,M
A13902	GTSE1	WB	H,M,R
A3432	GULP1	WB	H,M,R
A6231	GZMA	WB,IF	H,M,R
A2557	GZMB	WB,IF	H,M
A5551	HAX1	WB,IHC,IF	H,M
A0421	HDAC1	WB	H
A0238	HDAC1	WB,IHC,IF	H,M,R
A2139	HDAC3	WB,IHC,IF,IP,ChIP	H,M,R
A2603	HDAC3	WB,ICC	H
A12542	HDAC3	WB,IHC	H,M
A6921	HIP1	WB,IHC,IF	H,M
A0718	HMGB1	WB,FC	H,M,R
A0719	HMGB1	WB,IHC,FC	H,M,R
A2553	HMGB1	WB,IHC,IF	H,M,R
A10889	HMGB1	WB,IHC,IF	H,M,R
A12212	HRAS	WB	H,M,R
A7901	HRAS	WB,IHC	H,M,R
A0989	HSP90B1	WB	H,M,R
A3921	HSPA1A	WB,IF	H
A0284	HSPA1A	WB,IF	H,M
A12948	HSPA1A	WB	H,M,R
A0558	HSPA9	WB,IHC,IF	H,M,R
A0055	HSPA9	WB	H

Catalog	Name	Applications	Cross-Reactivity
A9887	HSPB6	WB	M
A0045	HSPD1	WB,IHC,FC	H,M,R
A0969	HSPD1	WB,IHC,IF,IP	H,M,R
A10906	HSPD1	WB,IHC	H,M,R
A7437	HSPE1	WB,IHC,IF	H,M,R
A14877	HTRA2	WB,IHC	H,M,R
A5762	HTRA2	WB,IF	H,M
A2816	IAPP	WB	H,M,R
A7438	ICAM4	WB	H,M,R
A14002	IFI16	WB,IHC	H,M,R
A2007	IFI16	WB,IF	H,M
A2203	IFIH1	WB,IHC,IF	H
A13645	IFIH1	WB,IF	H,M
A1575	IFNB1	WB	H
A13318	IFRD1	WB,IF	H,M,R
A7439	IFRD1	WB,IHC	H,M,R
A7191	IFT57	WB	H,M,R
A0243	IGF1R	WB,IHC,IF	H,M
A12736	IGF1R	WB,IHC,IF	H,M,R
A12352	IGFBP3	WB	H,M,R
A10962	IKBIP	WB	H
A2087	IKBKB	WB,IHC,IF	H,M,R
A0714	IKBKB	WB	M,R
A0713	IKBKB	WB,IHC,IF	H
A0917	IKBKG	WB,IHC,IF	H,M,R
A1003	IKBKG	WB	H
A12536	IKBKG	WB	H,M
A1850	IKZF1	WB,IF	H,M,R
A2983	IL15RA	WB	H
A10732	IL15RA	WB	H
A0688	IL17A	WB	H,M,R,Mk
A3203	IL17A	WB	H
A1115	IL18	WB	H,M,R
A1316	IL1A	WB,IHC	H,M
A2170	IL1A	WB	H
A11370	IL1B	WB,IHC	M,R
A0301	IL1B	WB,IHC,IF	H,M,R
A13268	IL1B	WB,IHC,IF	H,M,R,D,Hr,R
A8029	IL2	WB	H
A5671	IL3	WB	H,M
A6141	IL31RA	WB	H,M
A8378	IL41	WB	H,M,R
A2447	IL6	WB,IHC,FC	H,R
A0469	IL6ST	WB,IHC	H
A7904	ING1	WB	H,M,R
A10932	ING4	WB,IHC	H
A1734	INHA	WB,IHC	H,M,R
A2839	INHBA	WB	H
A4738	IP6K2	WB	M
A7692	IRF1	WB,IHC	H,M
A10927	IRF1	WB,IHC,IF,IP	H,M,R
A0715	JAK1	WB	H
A11878	JAK1	WB,IHC	H,M,R
A7694	JAK2	WB,IHC	H,M,R
A0360	JAK2	WB,ICC	H,M,R
A0361	JAK2	WB,IF,FC	H,M
A10193	KIF4A	WB,IF	H,M,R
A3285	KLF5	WB,IHC,IF,FC	H
A13919	KNG1	WB,IHC	H,M,R
A1670	KNG1	WB	H,M
A0388	KRT18	WB,IHC,IF,FC	H,M
A0389	KRT18	WB,ICC	H,Mk

Catalog	Name	Applications	Cross-Reactivity
A1022	KRT18	WB	H,M
A2606	LAMTOR5	WB	H,M
A2177	LCK	WB	H,M
A0060	LCK	WB,IHC,IF,FC	H,M
A2733	LGALS1	WB,IHC	H,M,R
A1580	LGALS1	WB	H,M,R
A2734	LGALS2	WB,IHC	H,M
A5469	LITAF	WB,IHC	H,M
A2452	LMNB1	WB,IHC,IF,IP,FC	H,M,R
A1910	LMNB1	WB,IHC,IF	H,M,R
A6483	LMNB2	WB,IHC,IF	H,M,R
A10963	LRP1	WB,IHC,IF,IP	H,M,R
A1597	LTF	WB,IHC,IF	H,M,R
A4400	MAEA	WB	H
A1092	MAGED1	WB,IHC	H,M,R
A2144	MALT1	WB,IF	H,M
A3616	MAP3K10	WB,IHC	H
A2773	MAP3K14	WB,IHC	H,M,R
A12458	MAP3K5	WB	H
A3630	MAPK1	WB,IHC,FC	H
A11186	MAPK1	WB,IHC	H,M,R
A0229	MAPK1	WB	H,M,R
A2462	MAPK8	WB	H,M,R
A6117	MAPK8	WB,IHC,IF	H
A0288	MAPK8	WB,IHC	H,M
A12980	MAPT	WB	M,R
A5471	MB	WB	H,M,R
A10993	MCL1	WB,IHC,IF,IP	H,M,R
A1747	MDM4	WB	H
A10508	MEGF10	WB	H,M,R
A4874	MFF	WB,IHC	H,M,R
A8504	MKL1	WB	H,M,R
A14212	MKL1	WB,IHC	H,M
A11147	MMP9	WB,IHC	H,M,R
A0289	MMP9	WB	H,M,R
A2095	MMP9	WB,IHC	H,M
A0311	MMP9	WB,IHC,ICC,FC	H,R
A5841	MRPS30	WB,IHC,IF,IP	H,M,R
A0064	MSH2	WB,IF,FC	H
A1121	MSH2	WB,IP	H,M,R
A0983	MSH6	WB,IHC,IF	H,M,Mk
A3177	MSH6	WB,IF	H,M
A8063	MTCH1	WB,IHC	H,M,R
A9226	MTCH2	WB,IHC	H,M
A12934	MTCH2	WB	H,M
A1309	MYC	WB	H,M,R
A0309	MYC	WB,IP,CHIP	H,M,R
A11029	MYC	WB,IHC,IF,IP	H,M,R
A11911	MYC	WB,IHC,ICC,IF,IP,FC	H,M,R
A4254	NAE1	WB	H,M,R
A2768	NAIF1	WB	H,M,R
A15217	NAIF1	WB	H,M,R
A12229	NCKAP1	WB	H,M,R
A5412	NDUFA13	WB	H,M
A2592	NDUFS1	WB,IHC	H,M,R
A3983	NDUFS3	WB	H,M
A8013	NDUFS3	WB,IHC	H,M,R
A6667	NFKB1	WB,IHC,IF	H,M
A11160	NFKB1	WB,IHC,IF,IP	H
A11892	NFKB1	WB,IHC,IF,IP,FC,-CHIP	H,M,R
A14754	NFKB1	WB	H,M,R
A3108	NFKB2	WB,IHC	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A5567	NFKB2	WB,IHC,IF	H,M,R
A11917	NFKB2	WB,IHC,IF,IP	H,M,R
A2457	NFKBIA	WB,IHC,IF,IP,FC	H,M,R,P
A11397	NFKBIA	WB,IF,IP	H,M
A1187	NFKBIA	WB	H,M,R
A10492	NFKBIZ	WB	H,M,R
A11169	NGFR	WB	H,M,R
A2097	NGFR	WB	H,M
A0418	NGFR	WB	H,M,R
A11050	NGFR	WB,IHC,IF,IP	H,M,R
A7296	NGFRAP1	WB,IF	H,M
A13117	NLRC4	WB	H,M
A6345	NLRP3	WB,IHC	H
A5652	NLRP3	WB	H,M,R
A14223	NLRP3	WB	H
A0087	NME1	WB,IHC	H,R
A0259	NME1	WB,IHC,IF	H,M,R
A14388	NME6	WB	M,R
A1246	NOD1	WB	H,M,R
A14082	NOL3	WB,IHC,IF	H,M
A6319	NOL3	WB,IF	H,M,R
A0560	NOTCH2	WB,IHC	H,M
A7136	NOX5	WB	H,M,R
A5859	NPRL2	WB,IF	H,M
A12476	NTF3	WB,IHC	H,M
A6868	NUDT2	WB,IF	H,M,R
A2499	NUP62	WB,IHC,IF	H
A9833	OPA1	WB	H,M,R
A6163	OSM	WB,IHC	H,M
A0808	PAK1	WB	H,M,R
A0809	PAK1	WB,IHC	H,R
A2554	PAK1	WB	M
A7333	PAK2	WB,IHC,IF	H,M,R
A0518	PAK2	WB,IHC	H
A2782	PAK4	WB	H,M,R
A2783	PAK7	WB,IHC	H,M,R
A4360	PARP3	WB	H
A8343	PARP4	WB	H,M,R
A3063	PAWR	WB,IHC	H,M,R
A1675	PAX3	WB,IF	H,M,R
A6006	PCSK9	WB,IHC,FC	H,M
A7860	PCSK9	WB,IHC	H,M,R
A15400	PDCD10	WB	H,M
A7394	PDCD2L	WB,IHC	H,M,R
A2570	PDCD4	WB	H,M
A2420	PDCD4	WB,IHC,IP,FC	H,M,R
A4359	PDCD6	WB	H
A6685	PDCD6	WB,IHC,IF	H,M,R
A2215	PDCD6IP	WB,IHC	H,M,R
A2102	PDE1B	WB,IHC,IF	H,M,R
A0117	PDIA3	WB,IHC,FC	H
A1085	PDIA3	WB,IHC	H,M,R
A9956	PEA15	WB,IHC	H,M,R
A8620	PEF1	WB	H
A0056	PHB	WB	H,M,R
A13526	PHB	WB,IF	H,M,R,Mk
A0156	PHB	WB,IHC	H,M,R
A11077	PHB	WB,IHC,IF,IP	H,M,R
A9542	PHLPP1	WB	H,M,R
A4831	PIDD	WB,IF	H,M,R
A2460	PIK3CA	WB,IHC,IP	H,M,R
A0265	PIK3CA	WB,IHC	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A6509	PIK3CA	WB,IHC,IP,FC	H,M,R
A12484	PIK3CA	WB,IHC	H,M,R
A2461	PIK3CG	WB,IP	H,M
A0266	PIK3CG	WB	H,M,R
A5241	PIK3R2	WB	H,M,R
A11086	PIK3R2	WB,IHC,IF,IP	H,R
A0175	PIM1	WB	R
A11080	PIM1	WB,IHC,IF	H,M
A9730	PLAGL1	WB	H
A1436	PLG	WB	H
A3320	PLG	WB	H,R
A12371	PLSCR3	WB	H,M
A9801	PMAIP1	WB	H
A1184	PML	WB,IHC,IF	H,M
A1681	POLB	WB,IF	H,M,R
A7712	POU4F3	WB	H,R
A5656	PPARD	WB,IF	H,M
A3208	PPIF	WB	H,M
A9235	PPM1F	WB,IHC	H
A4457	PPP1R13L	WB,IF	H
A6702	PPP2CA	WB,IHC,IF	H,M,R
A5799	PPP2R1A	WB,IF	H,M
A6703	PPP2R1B	WB,IHC,IF	H,M,R
A6329	PRDX5	WB,IHC,IF	H,M
A1269	PRDX5	WB,IF	H,M,R
A2031	PRDX6	WB,IHC,IF	H,M
A0093	PRF1	WB,IHC,IF	H,M,R
A1229	PRKAA1	WB,IF	H,M,R
A0267	PRKCA	WB,IHC,IF	H
A13342	PRKCA	WB	H,M,R
A11107	PRKCA	WB,IHC,IF,IP	H,M,R
A2110	PRKCE	WB,IHC,ICC	H,M,R
A0829	PRKCZ	WB,IHC	H,M
A5836	PRODH	WB,IHC	H,M
A6705	PROK2	WB,IHC	H,M,R
A7719	PSEN2	WB,IHC	H,M,R
A5484	PSRC1	WB,IHC	H,M
A11193	PTEN	WB	H,M,R
A5518	PTEN	WB,IHC	H,M,R
A11128	PTEN	WB,IF,IP	H,M,R
A1446	PTPN6	WB,IF	H,M
A11134	PTPN6	WB,IHC	H,M,R
A0371	PTPRC	WB,IHC,FC	H
A0373	PTPRC	WB,IHC,IP,FC	H,M
A2115	PTPRC	WB,IHC,IF	H,M,R
A6466	PTRH2	WB,IHC,IF	H,M,R
A4511	PUF60	WB	H,M,R
A6709	PUF60	WB,IHC,IF,IP	H,M,R
A11433	PYCARD	WB,IHC,IF	H,M,R
A1170	PYCARD	WB,IF	H,M
A1934	RAB27A	WB,IHC,IF	H,M
A4273	RABEP1	WB	M
A1890	RAD9A	WB,IHC,IF	H,M,R
A0223	RAF1	WB,IHC,IF	H,M,R
A5788	RAF1	WB	H,M,R
A1140	RALBP1	WB,IHC	H,M,R
A14943	RASSF4	WB	H
A12602	RASSF5	WB	H,M
A7389	RASSF5	WB,IHC	H,M,R
A5187	RASSF6	WB	M,R
A11201	RELA	WB,IHC,IF	H
A11204	RELA	WB	H,M,R

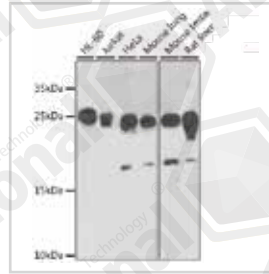
Catalog	Name	Applications	Cross-Reactivity
A11202	RELA	WB,IHC	H,R
A0450	RELA	WB,IHC,IF,FC	H,M
A2547	RELA	WB,IHC,IF	H,R
A10609	RELA	WB,IHC,IF,IP	H,M,R
A11155	RELA	WB,IHC,IF	H,M
A0519	RELB	WB	H,M
A15255	RERE	WB	H
A14350	RHBDD1	WB	H,M
A2819	RHOB	WB,IHC	H,M
A5838	RHOT1	WB,IHC	H,M,R
A2498	RIPK2	WB	H,M
A5431	RIPK3	WB	H,M,R
A8517	RNF34	WB	H
A1008	ROCK1	WB,IHC	H,M,R
A11158	ROCK1	WB,IHC,IF,IP	H,M,R
A5698	ROCK2	WB,IHC,IF	H,M,R
A13543	RPS3	WB,IF	H,M
A2533	RPS3	WB,IHC	H,M,R
A11161	RPS3	WB,IHC,IF	H,M,R
A8741	RRAS	WB,IHC,IP	H,M,R
A6732	RTKN	WB,IF	H
A3114	RTN4	WB,IHC	H,M,R
A3138	RTN4	WB	H
A14605	RYBP	WB	M,R
A0676	S100B	WB,IF	H,M,R
A12935	S1PR1	WB	H,M
A8569	SART1	WB,IP	H,M,R
A6425	SCG2	WB,IF	H
A7004	SEMA3B	WB,IHC	H,M,R
A1036	SERPINA5	WB,IHC	H
A1888	SERPINB2	WB,IHC	H
A15297	SERPINB2	WB	H
A6393	SERPINB9	WB,IF	H,M,R
A1025	SGK1	WB,IHC,IF	H,M
A15008	SGMS1	WB	H
A7306	SGTA	WB,IHC,IF	H
A4709	SH3GLB1	WB,IHC	H
A14887	SH3GLB1	WB	M,R
A2494	SIAH1	WB,IHC,IF	H,M,R
A12253	SIPA1	WB	H,M
A0127	Sirt1	WB	H,M
A11267	SIRT1	WB,IHC,IP	H,M,R
A12988	SIRT1	WB	H
A7728	SKP2	WB	H,M,R
A5782	SLAMF7	WB	H,M,R
A1882	SLC25A4	WB,IHC	H,M,R
A9463	SLC5A8	WB	H
A5657	SMAD4	WB,IF	H,M
A5767	SMARCB1	WB,IHC	H,M,R
A7008	SMC1A	WB	H,M,R
A10908	SMC2	WB	H
A13933	SMC4	WB	H,M
A0681	SMNDC1	WB	H,M,R
A3274	SMO	WB,IHC	H,R
A6743	SMPD1	WB,IF	H,M,R
A13354	SNCA	WB,IHC,IF	H,R
A7215	SNCA	WB,IF	H,M,R
A0012	SNCA	WB,IHC,FC	H,M,R
A5703	SOCS2	WB	M
A0769	SOCS3	WB	M
A0274	SOD1	WB	H,M,R
A1340	SOD2	WB,IHC,IF	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A7926	SORT1	WB,IHC	H,M,R
A2479	SOX9	WB	H,M,R
A7608	SPATA4	WB,IHC	H,M,R
A2153	SPDYA	WB	H,M,R
A0660	SPHK1	WB,IF	H,M
A0139	SPHK1	WB,IHC	H,M,R
A3204	SPHK2	WB,IHC	H,M
A5853	SPIN1	WB,IHC,IF	H,M,R
A7407	SPIN2B	WB,IHC	H,M,R
A6412	SPN	WB,IHC	H,M
A8082	SPP1	WB,IHC,FC	H,M
A1361	SPP1	WB	M
A11483	SQSTM1	WB,IHC,IF,IP	H
A11247	SQSTM1	WB,IHC,IF	H,M,R
A11246	SQSTM1	WB,IF	H
A7758	SQSTM1	WB,IHC,IF	H,M,R
A11250	SQSTM1	WB	H,M,R
A5854	SRPK1	WB,IHC,IF	H,M,R
A12510	SRPK1	WB,IHC,IF	H,M
A9400	STAG2	WB	H
A7065	STAMPB	WB,IHC,IF	H,M,R
A0027	STAT1	WB,IHC	H,M,R
A10100	STAT1	WB,IP	H
A12075	STAT1	WB,IP	H,M
A2637	STAT5A	WB,IHC	H,M,R
A3638	STAT5A	WB,IHC	H,M
A11779	STAT5A	WB	M,R
A0683	STEAP3	WB	H,M,R
A0844	STK11	WB,IHC,IF,FC	H
A2122	STK11	WB,IHC,IF	H,M,R
A6992	STK3	WB,IHC	H,M,R
A8043	STK4	WB,IHC,IP	H,M,R
A2176	STMN1	WB	H,M,R
A14018	STMN1	WB,IHC,IF	H,M
A6756	STRN3	WB,IHC,IF	H,M,R
A3273	SUFU	WB	H
A13429	SUFU	WB,IF	H,M,R
A6757	SUFU	WB,IHC,IF	H,M,R
A9193	SUPT5H	WB	H,M
A9951	SUPV3L1	WB	H,M
A2237	SUV39H1	WB	H,M
A5855	SUV39H2	WB,IP,ChIP	H,M
A3227	SUV39H2	WB,IHC	H,M
A9548	SYCP3	WB	H
A2605	SYVN1	WB	H,M
A9718	TACC3	WB	H
A8457	TADA2A	WB	H,M,R
A2238	TAF1	WB	H,M
A13405	TARDBP	WB,IHC	H,M
A13404	TARDBP	WB	H,M,R
A1183	TARDBP	WB,IHC,IF,IP,RIP	H,M,R
A0538	TARDBP	WB,IHC,IF	H,M
A11844	TBRG1	WB	H
A0276	TBRG4	WB,IF,IP	H,M,R
A4141	TBX5	WB,IHC	H
A9006	TCF7L1	WB	H,M,R
A5293	TERF1	WB,IF	H,M
A0137	TERF1	WB,IHC	H,M
A0138	TERF2	WB,IP	H,M
A5569	TFDP1	WB,FC	H,M,R
A2124	TGFB1	WB	H,M,R
A0291	TGFB1	WB,IHC,FC	H

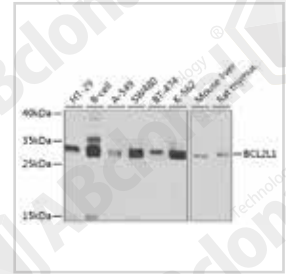
Catalog	Name	Applications	Cross-Reactivity
A10749	TGFB1	WB	H,R
A11871	TGFB1	WB,IHC,ICC,FC	H,M,R
A3640	TGFB2	WB	H,M
A8460	TGFB3	WB,IHC	H,M,R
A0840	TGM2	WB,IHC,IF	H
A0981	TGM2	WB,IHC	H,M
A12523	TIA1	WB,IHC	H,M
A12517	TIA1	WB,IF	H,M,R
A8773	TIPIIN	WB	H
A8913	TLK1	WB,IHC	H
A14831	TLK1	WB	H,M,R
A6770	TLK2	WB,IHC,IF	H,M
A11225	TLR2	WB,IHC	H,M,R
A2545	TLR2	WB	H
A0367	TLR2	WB,ICC,IP	H,M,R
A8605	TMPRSS11A	WB	H,M,R
A14167	TMPRSS11A	WB	H,M,R
A14936	TMX1	WB	H
A11534	TNF	WB,IHC,IF	H,M,R
A0277	TNF	WB	H,M
A2127	TNFAIP3	WB	H,M
A6267	TNFRSF10A	WB,IHC	H
A1236	TNFRSF10B	WB	H
A9914	TNFRSF10B	WB,ICC	H,M
A0184	TNFRSF10D	WB,FC	H
A6136	TNFRSF10D	WB	H,M
A2100	TNFRSF11B	WB,IHC,IF	H,M,R
A13250	TNFRSF11B	WB	H,R
A13093	TNFRSF12A	WB	H
A1969	TNFRSF14	WB	H
A11832	TNFRSF14	WB	H
A1095	TNFR2	WB	H,M,R
A0387	TNFRSF1B	WB,IF	H
A2900	TNFRSF21	WB	H
A9783	TNFRSF25	WB	H
A14261	TNFRSF25	WB	H
A7651	TNFRSF8	WB	H
A5659	TNFSF12	WB,IHC	H,M,R
A5858	TNFSF13B	WB	H,M
A7223	TOB2	WB,IHC	H,M
A0726	TOP2A	WB,IHC,IF	H
A6506	TP53	WB	H
A3185	TP53	WB,IHC,IF	H,R
A5804	TP53	WB,IF	M,R
A11232	TP53	WB,IHC,IF	H,M
A0263	TP53	WB,IF	H
A5761	TP53	WB,IHC,IP	H,M,R
A10610	TP53	WB	H,M
A11212	TP53	WB,IF	H
A11799	TP53	WB	H
A7224	TP53AIP1	WB	M,R
A15105	TP53BP2	WB	H
A12937	TP63	WB	H,M
A12968	TP63	WB	H,M,R
A12960	TP63	WB	M
A2781	TP73	WB	H,M,R
A5442	TPT1	WB	H,M
A4522	TPX2	WB,IHC	H
A0183	TRADD	WB,IHC,IF,FC	H
A1145	TRADD	WB,IHC	H,M,R
A0962	TRAF2	WB,IF	H,M,R
A0875	TRAF3	WB,IHC	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A15106	TRAF3	WB,IF	H,M,R
A3094	TRAF3	WB,IF	H,M
A0973	TRAF6	WB,IF	H,M,R
A3368	TRAIIP	WB,IHC	H,M
A2748	TRAP1	WB,IHC,IF	H,M,R
A4378	TRAP1	WB	H,M,R
A2346	TRIB3	WB	H,M
A5424	TRIB3	WB	H,M
A2245	TRIM28	WB,IHC	H,M,R
A9917	TRIM28	WB,IHC,ICC,IP	H
A5157	TRIM69	WB,IHC	M
A0720	TSC1	WB	H,M,R
A0721	TSC1	WB	H,M
A0491	TSC2	WB,IHC,IF	H
A6779	TSC22D3	WB,IHC,IF	H,M,R
A10765	TSPO	WB,IHC,IF,IP	H,M
A8788	TSPYL2	WB	H
A13118	TSPYL2	WB	H,M
A2500	TTK	WB	H,M
A7246	TUBG1	WB	H,M,R
A6215	TUBG1	WB	H,M,R
A10611	TUBG1	WB,IHC	H,M,R
A3516	TXNDC5	WB	H
A7315	TXNDC5	WB,IF	H,M
A14152	TXNDC5	WB,IHC,IF	H,M,R
A6322	TXNL1	WB,IHC,IF	H,M,R
A10138	TXNL4A	WB	H,M
A0070	TYMP	WB,IHC	H
A1094	TYMP	WB,IF	H,M,R
A13166	U2AF1	WB	H,M,R
A9713	UACA	WB	H,M,R
A0162	UBB	WB,IHC,ICC,FC	H,M,R
A11227	UBB	WB,IHC,IF	H,M,R
A3207	UBC	WB,IHC	H,M,R
A5499	UBE2C	WB,IHC,IF,IP	H
A0105	UBE2I	WB,IHC	H
A2193	UBE2I	WB,IHC	H,M,R
A13558	UBE2I	WB,IF	H
A6316	UBE2V1	WB,IF	H,M,R
A6998	UBE2V2	WB,IHC	H,M,R
A4951	UBE2Z	WB	H
A7225	UBE2Z	WB,IHC,IF	H,M
A5139	UHMK1	WB,IHC	H,M,R
A0297	UHRF1	WB,IF,FC	H
A2343	UHRF1	WB,IHC,IF	H
A13647	Uhrf2	WB	M,R
A2344	Uhrf2	WB	H,M,R
A14978	UNC5B	WB	H,M,R
A3651	UNC5C	WB,IHC,FC	H
A14809	UNC5C	WB	H,M,R
A3704	UNC5D	WB	H
A13541	UPF1	WB,IHC	H,M
A1521	UPF1	WB,IF	H,M
A12556	USH1C	WB	H,M,R
A4368	USH1C	WB,IHC	H,M,R
A5861	USP16	WB	H,M,R
A9292	USP28	WB	H
A10400	USP28	WB	H,M
A0125	VCP	WB,IF	H,M,R
A13368	VCP	WB,IHC	H,M,R
A2795	VCP	WB	H,M
A4183	VDAC3	WB	H

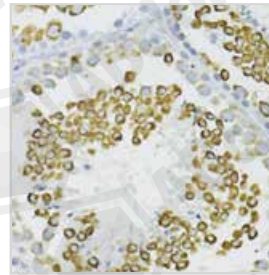
Catalog	Name	Applications	Cross-Reactivity
A5708	VEGFA	WB,IF	H,M
A0280	VEGFA	WB,IF	H,M,R
A0544	VEGFB	WB	M,R
A2132	VEGFB	WB,IHC	H,M,R
A2556	VEGFC	WB,IHC	H,M,R
A0401	VEGFC	WB	H
A12530	VEGFC	WB,IHC	H,M
A11872	VHL	WB,IHC,IF,IP	H,M,R
A6855	WRN	WB	H
A1198	WT1	WB,IHC,IF	H,M
A12652	WWOX	WB	H
A12653	WWOX	WB	H,M,R
A1543	XIAP	WB	H,M,R
A3735	XIAP	WB,IHC,IF	H
A13277	XIAP	WB,IF	H,M
A6869	XIAP	WB,IHC,IF	H,M,R
A0383	XIAP	WB,ICC	H
A13639	XRCC2	WB,IF	H,M
A7539	XRCC4	WB	H
A1677	XRCC4	WB,IHC,IF	H,M,R
A9554	XRN1	WB	H
A6791	YARS	WB,IP	H,M,R
A6318	YEATS4	WB	H,M,R
A3043	YWHAG	WB	H,M,R
A9079	YWHAH	WB	H,M
A2563	YWHAQ	WB,IF	H,M
A0174	YWHAZ	WB,IHC,FC	H,M
A7639	YWHAZ	WB,IHC	H,M,R
A13370	YWHAZ	WB	H,M,R
A14797	YWHAZ	WB,IHC	H,M,R
A14513	ZAK	WB	M,R
A5863	ZBTB16	WB	H,M
A8463	ZBTB17	WB,IHC	H,M,R
A14800	ZBTB17	WB,IHC	H,M,R
A6327	ZMYND11	WB	H,M,R
A7507	ZNF346	WB,IHC,IF	H,M,R
A10914	ZWINT	WB,IHC,FC	H,M



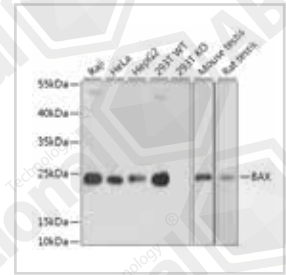
A11025 BCL2



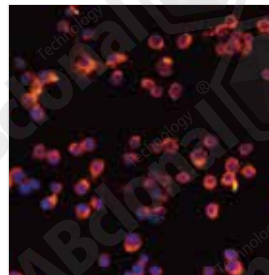
A0209 BCL2L1



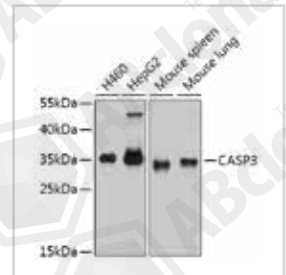
A12009 BAX



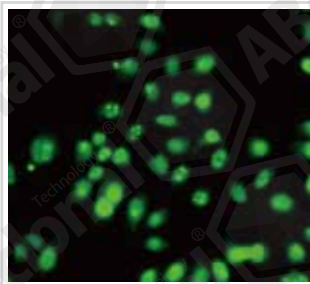
A12009 BAX



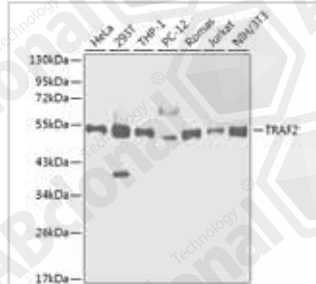
A11953 CASP3



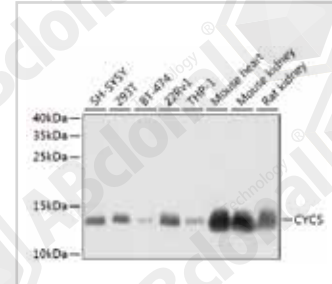
A11953 CASP3



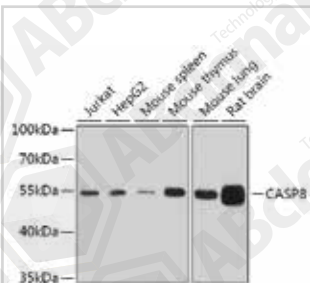
A11232 TP53



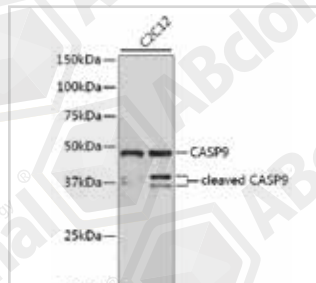
A0962 TRAF2



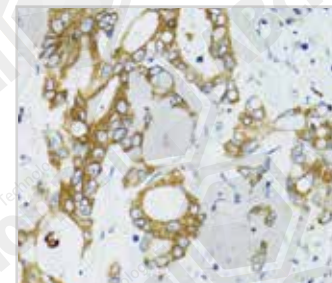
A13430 CYCS



A11324 CASP8



A11910 CASP9

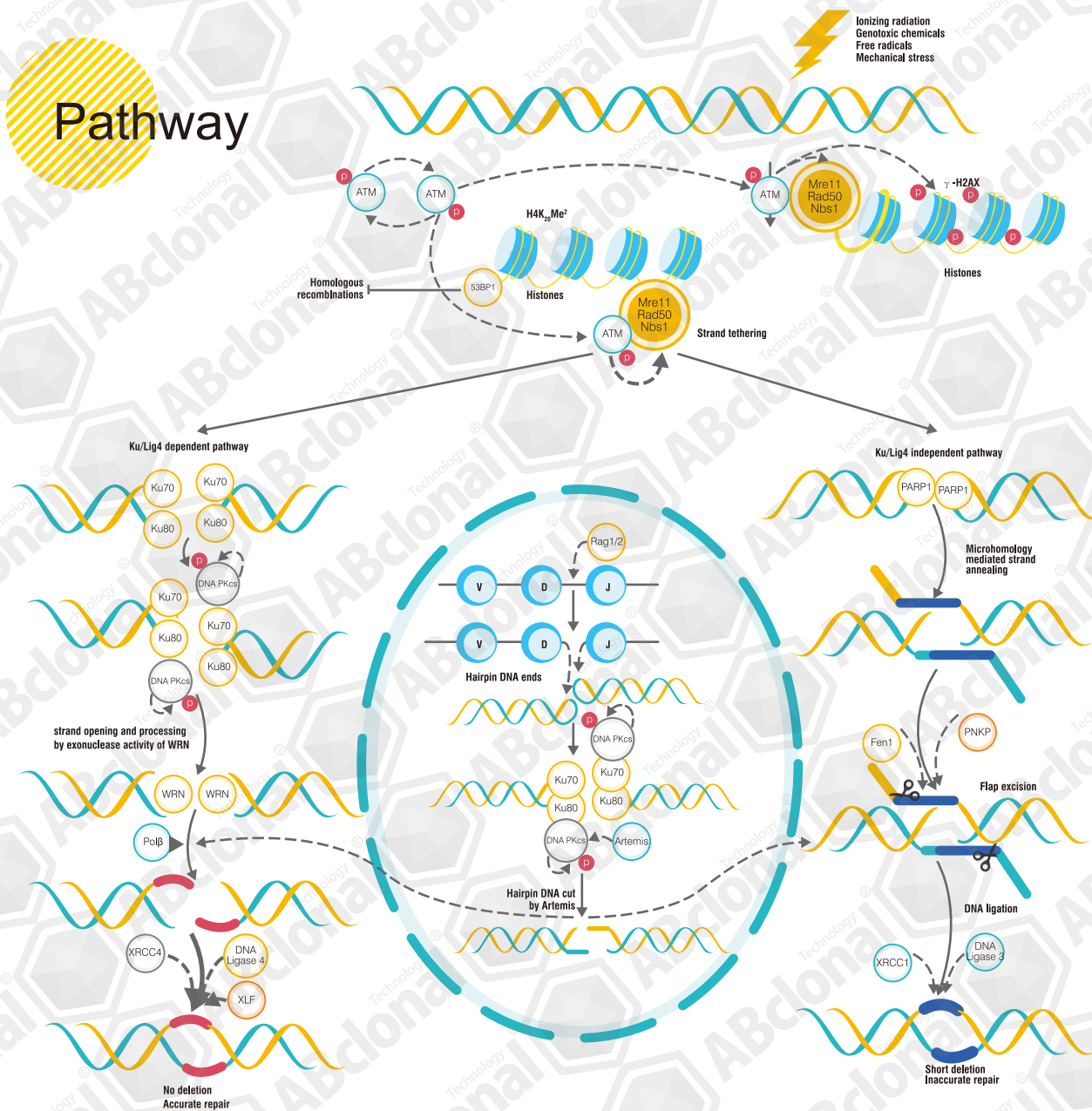


A0273 SIRT2

DNA Damage/Repair

In eukaryotes, DNA damage can be caused by both normal metabolic activities and environmental factors, such as UV and radiation, resulting in up to 500,000 molecular damages per cell per day. These damages cause structural damage to DNA molecules, which can dramatically change the way genes are encoded, and, further, affect the survival of daughter cells after mitosis. Therefore, during the long evolutionary process, a DNA repair mechanism - DNA damage response is formed. DNA repair must work constantly in order to quickly correct any mistakes in the DNA structure.

The speed of DNA repair depends on many factors, such as cell type, cell aging, and external environment. However, as cells accumulate large amounts of DNA damage, the rate of DNA repair decreases until it can no longer keep up with the constant DNA damage. At this point, cells may suffer from one of the three fates: irreversible hibernation, which can be called cell aging; cell suicide, which is apoptosis or programmed cell death; or uncontrolled cell division, which may result in the formation of a tumor or cancer.



Pathway

DNA Damage/Repair Antibody List

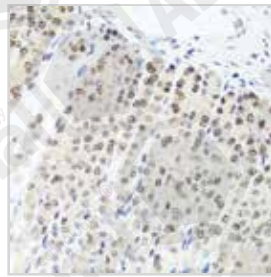
Catalog	Name	Applications	Cross-Reactivity
A0899	AICDA	WB,IHC	H,M,R
A12372	AICDA	WB	M
A6240	ALKBH1	WB,IP	H
A5808	ALKBH3	WB	H,M,R
A9223	ALKBH5	WB	H
A2331	ALKBH7	WB	H,M,R
A8365	ANKRD28	WB	H,M
A8379	ANKRD52	WB,IHC	H,M,R
A1117	APEX1	WB,IHC,IF	H
A0476	APEX1	WB,IHC,IF	H
A2587	APEX1	WB,IF,IP	H
A8293	APITD1	WB	H
A5364	APTX	WB,IF,IP	H,M
A5908	ATM	WB	H
A10745	ATM	WB,IF	H
A12885	ATP23	WB	M,R
A5041	ATRIP	WB,IF,IP	H
A7139	ATRIP	WB,IP	H,M
A4398	BCAS2	WB,IHC	H,M,R
A9912	BRAP	WB	H
A11034	BRCA1	WB	H,M
A0212	BRCA1	WB,IHC,IF	H,M
A11549	BRCA1	WB,IHC	H,M,R
A4965	BRCC3	WB	H
A6804	BRIP1	WB	H,M,R
A6138	C11orf30	WB,IF	H,M
A8591	C17orf70	WB	H,M,R
A8928	CCDC6	WB	H
A0995	CCNH	WB,IP	H
A0107	CCNH	WB,FC	H
A5560	CDC5L	WB,IHC,IF	H,M
A6806	CDK7	WB,IHC,IP	H,R
A12942	CDK7	WB	H,M,R
A7279	CEBPG	WB,IHC,IF	H,M,R
A9174	CEP63	WB,IHC	H
A5397	CETN2	WB,IF	H,M,R
A7653	CHEK1	WB,IHC	H,M,R
A2145	CHEK2	WB,IHC,IF	H,M,R
A0466	CHEK2	WB,IHC,IF,IP	H,M
A0465	CHEK2	WB,IHC,IF,FC	H
A6807	CRY1	WB,IHC	H,M,R
A13666	CRY1	WB,IHC	H,M
A6890	CRY1	WB	H,M,R
A3809	CRY2	WB,IHC	H,M
A2882	CUL4A	WB	H,M
A6199	CUL4A	WB	H,M
A12696	CUL4B	WB	H,M
A5369	CUL5	WB,IF	H,M
A3827	DDB1	WB	H,M,R
A2896	DDB1	WB,IHC	H,M,R
A1848	DDB2	WB,IF	H,M,R
A4491	DMC1	WB	H,M
A6254	DNTT	WB	M,R
A3840	DUT	WB,IHC	H
A8375	EME1	WB	M,R
A0777	ERCC1	WB	H
A5291	ERCC1	WB,IF	H,M
A1332	ERCC2	WB	H
A14563	ERCC2	WB	H,M,R
A8119	ERCC4	WB,IP	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A13144	ERCC6L2	WB	H,M
A6809	ERCC8	WB,IHC	H,M
A6884	ERCC8	WB	M
A6810	EXO1	WB,IF	H
A7671	FANCA	WB,IHC	H
A1812	FANCC	WB,IHC,IF	H,M,R
A2072	FANCD2	WB,IF	H
A0521	FANCD2	WB	H
A8417	FANCE	WB	M
A3447	FANCI	WB	H
A6812	FANCL	WB,IHC	H,M
A5406	FBP1	WB,IF	H,M
A1175	FEN1	WB,IHC,IF,IP	H,M
A0129	FEN1	WB,IF	H
A0836	GADD45A	WB,FC	H
A10001	GEN1	WB	H,M
A4503	GPN1	WB	H
A12167	GPN1	WB	H,M,R
A3901	GPS2	WB,IP	H,M
A6814	GTF2H1	WB	H,M,R
A7188	GTF2H3	WB,IF,IP	H,M,R
A8425	GTF2H4	WB	H,M
A11361	H2AFX	WB,IHC,IF	H,M,R
A0823	H2AFX	WB,IHC	H
A1479	H2AFX	WB,IHC,ICC	H,M,R,Mk
A11516	H2AFX	WB,IHC	H,M,R
A11517	Histone H2AX	WB	H,M
A2082	H2AFX	WB	H,M,R
A8600	HFM1	WB	H,R
A3299	HIST1H1C	WB	H
A8353	HLTF	WB	H
A0718	HMGB1	WB,FC	H,M,R
A0719	HMGB1	WB,IHC,FC	H,M,R
A2553	HMGB1	WB,IHC,IF	H,M,R
A10889	HMGB1	WB,IHC,IF	H,M,R
A13938	HUS1	WB,IHC	H,M,R
A5407	HUS1	WB,IF,IP	H,M
A6817	HUS1B	WB	H,M,R
A14655	HUS1B	WB,IHC	M,R
A1858	LIG1	WB,IHC,IF	H,M
A13507	LIG3	WB,IHC	H,M,R
A1887	LIG3	WB,IF,IP	H
A5409	LIMK2	WB	H,M
A0693	MGMT	WB,IF	H,M,R
A3961	MLH1	WB,FC	H
A12981	MLH1	WB	H
A10944	MMS19	WB	H
A1918	MNAT1	WB,IP	H,M
A7071	MORF4L1	WB,IF	H,M,R
A3665	MORF4L1	WB	H
A5410	MPG	WB,IF	H,M,R
A14026	MRE11A	WB	H,R
A2559	MRE11A	WB	H,M
A0064	MSH2	WB,IF,FC	H
A1121	MSH2	WB,IP	H,M,R
A5681	MSH3	WB	H
A2765	MSH3	WB,IHC	H,M,R
A8556	MSH4	WB	M,R
A0983	MSH6	WB,IHC,IF	H,M,Mk
A3177	MSH6	WB,IF	H,M

Catalog	Name	Applications	Cross-Reactivity
A11354	MTOR	WB,IHC,IF	H,M,R
A2445	MTOR	WB,IF,IP	H,M,R
A11355	MTOR	WB,IHC	H,M,R
A0380	MTOR	WB,IHC,IF	H
A11928	MTOR	WB,IHC,IF,IP	H,M,R
A6818	MUS81	WB,IHC	H,M,R
A2265	MUTYH	WB,IF,FC	H,M
A4429	MYBBP1A	WB,IHC	H,M,R
A7703	NBN	WB	H,M,R
A0782	NBN	WB,IF,FC	H
A0783	NBN	WB	H,M
A4985	NHEJ1	WB,IHC	H,M,R
A12309	NOX1	WB	M,R
A6820	NTHL1	WB	H
A5474	NUDT1	WB,IHC	H,M,R
A13330	NUDT1	WB,IHC,IP	H
A8368	NUDT15	WB,IHC	H
A14141	NUDT15	WB	M,R
A10313	OTUB1	WB	H,M
A8373	PALB2	WB	H
A10017	PAPD7	WB	H,M,R
A11010	PARP1	WB	H,M
A0942	PARP1	WB,IHC	H,R
A0010	PARP1	WB	H,M
A2432	PARP1	WB,IF,IP	H,M,R,Mk
A4360	PARP3	WB	H
A8343	PARP4	WB	H,M,R
A9065	PAXIP1	WB	H
A13336	PCNA	WB,IF	H,M,R
A4006	PCNA	WB,IHC,IF,FC	H,M,R
A0264	PCNA	WB,IHC	H,M,R
A9909	PCNA	WB,IHC,ICC,IP	H,M,R,Hamster,Mk
A8449	PER1	WB,IHC	H,M,R
A5654	PIAS2	WB	H,M
A3627	PLS3	WB,IHC	H,M,R
A2183	PMS1	WB	H,M,R
A6947	PMS2	WB,IF	H,M,R
A13680	PMS2	WB,IF,IP	H
A6693	PNKP	WB,IHC,IF	H,M,R
A1681	POLB	WB,IF	H,M,R
A5323	POLD1	WB,IHC,IF	H,M,R
A6834	POLD2	WB	H,M,R
A7243	POLD3	WB,IHC,IF	H,M
A8506	POLD4	WB	H
A12842	POLE2	WB	H,M
A6469	POLE3	WB,IF	H,M
A9882	POLE4	WB	H
A1833	POLH	WB,IF	H,M,R
A11967	POLK	WB	H,M,R
A12052	POLK	WB	H,M
A12333	POLK	WB	M,R
A8408	POLL	WB	H,M,R
A6836	POLN	WB	M
A11181	POLR2A	WB,IHC	H,M,R
A2107	POLR2A	WB,IF	H,M,R
A5928	POLR2B	WB,IHC	H,M,R
A1785	POLR2C	WB,IP	H,M
A1859	POLR2D	WB,IF,IP	H,M
A1755	POLR2E	WB,IHC,IF	H,M
A6837	POLR2F	WB	R
A6838	POLR2G	WB	H,M,R
A4030	POLR2H	WB	H,M
A13339	POLR2H	WB,IF,IP	H,M
A6948	POLR2H	WB,IP	H,M,R
A1865	POLR2I	WB	H,M
A1843	POLR2J	WB,IF	H,M
A13531	PPP4C	WB,IF,IP	H,M
A2109	PPP4C	WB,IHC,IF,IP	H,M,R
A8361	PPP4R1	WB,IHC	H,M
A6850	PPP4R3B	WB	H
A4515	PPP6R1	WB	H,M
A8359	PPP6R2	WB	H

Catalog	Name	Applications	Cross-Reactivity
A7716	PRKDC	WB,IHC	H,M
A1419	PRKDC	WB	H,M
A6706	PRPF19	WB,IHC	H,M,R
A3419	PRPF19	WB,IHC,FC	H,M
A12590	PRPF19	WB,IHC	H,M,R
A5359	RAD17	WB,IF,IP	H
A5380	RAD18	WB	H,M
A3188	RAD23A	WB	H,M
A1034	RAD23B	WB,IHC	H,M
A6842	RAD23B	WB	H,M,R
A0182	RAD50	WB,IHC	H,M
A3078	RAD50	WB,IP	H,M,R
A6268	RAD51	WB	H,M,R
A6962	RAD51B	WB	M,R
A10893	RAD51C	WB	H,M,R
A7534	RAD51D	WB,IF	H,M,R
A3077	RAD52	WB	H,M,R
A1890	RAD9A	WB,IHC,IF	H,M,R
A5626	RAG2	WB,IF	H,M,R
A6844	RBX1	WB,IHC,IF	H
A14500	RBX1	WB	M,R
A6845	RDM1	WB	M
A6846	RECQL4	WB	H,M
A1625	RFC1	WB,IF	H
A6847	RFC2	WB	H,M
A4075	RFC3	WB	H,M,R
A5485	RFC4	WB,IHC,IF,IP	H,R
A8056	RFC5	WB,IHC	H,M
A8523	RMI2	WB	H
A8259	RNF219	WB	M,R
A7302	RNF8	WB,IF	H,M,R
A0874	RPA1	WB	H
A2189	RPA2	WB,IHC,IF,IP	H,M
A0568	RPA2	WB,IHC	H
A6721	RPA3	WB,IF	M,R
A9284	RPL26	WB	H
A13543	RPS3	WB,IF	H,M
A2533	RPS3	WB,IHC	H,M,R
A11161	RPS3	WB,IHC,IF	H,M,R
A0446	RPS6KB1	WB,IHC	H
A2190	RPS6KB1	WB	H,M
A0599	RRM1	WB	H
A13656	RRM1	WB,IF	H,M
A1152	RRM1	WB,IHC	H,M
A13348	RRM1	WB,IP	H,M
A5255	RRM2	WB,IHC,IF,IP	H,M,R
A5516	RRM2B	WB	H,M,R
A5723	RUVBL1	WB,IHC,IF	H,M
A12564	RUVBL2	WB,IHC,IF	H,M,R
A1905	RUVBL2	WB,IHC,IF	H,M,R
A8500	SMEK1	WB,IHC	H,M,R
A10166	SMUG1	WB	H,M,R
A2153	SPDYA	WB	H,M,R
A9892	STRA13	WB	H
A1423	TBP	WB,IHC,IF,FC	H
A2192	TBP	WB	H,M,R
A10185	TBP	WB,IHC	H,M
A6851	TCEB1	WB,IHC	H
A12515	TCEB1	WB	H,M,R
A1989	TCEB1	WB,IHC	H,M,R
A13363	TCEB2	WB,IHC,IP	H
A5362	TCEB2	WB,IP	H,M
A8492	TCEB3B	WB	M,R
A1262	TDG	WB	M,R
A5756	TDG	WB	H,M
A4849	TDP1	WB	H,R
A8773	TIPIN	WB	H
A8380	TMEM189	WB,IHC	H
A6506	TP53	WB	H
A3185	TP53	WB,IHC,IF	H,R
A5804	TP53	WB,IF	M,R
A11232	TP53	WB,IHC,IF	H,M

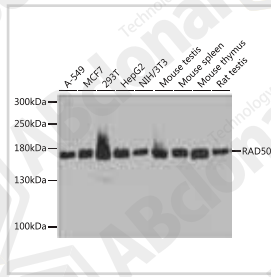
Catalog	Name	Applications	Cross-Reactivity
A0263	TP53	WB,IF	H
A5761	TP53	WB,IHC,IP	H,M,R
A10610	TP53	WB	H,M
A11212	TP53	WB,IF	H
A11799	TP53	WB	H
A0119	TP53BP1	WB,IHC,IF	H,M,R
A5757	TP53BP1	WB,IHC,IF	H,M,R
A2781	TP73	WB	H,M,R
A6778	TREX1	WB,IF	H,M
A9785	TSN	WB,IHC,IF	H,M
A12276	TSNAX	WB	H,M,R
A6315	UBE2B	WB,IHC	H,M,R
A0105	UBE2I	WB,IHC	H
A2193	UBE2I	WB,IHC	H,M,R
A13558	UBE2I	WB,IF	H
A6852	UBE2N	WB	H,R
A10543	UBE2N	WB	H,M,R
A8381	UBE2NL	WB	H,M
A6853	UBE2T	WB	H,M,R
A6316	UBE2V1	WB,IF	H,M,R
A6998	UBE2V2	WB,IHC	H,M,R
A4759	UIMC1	WB,FC	H
A14512	UIMC1	WB	H,M
A1473	USP1	WB	H
A6785	USP1	WB	H,M,R
A4208	USP11	WB,FC	H
A8462	UVRAG	WB,IHC	H,M,R
A6854	WDR48	WB,IHC	H,M,R
A6855	WRN	WB	H
A1626	XPA	WB,IF	H,M
A8354	XPC	WB,IHC	H
A0443	XRCC1	WB	H
A13639	XRCC2	WB,IF	H,M
A2134	XRCC3	WB,IHC,IF	H,M,R
A7539	XRCC4	WB	H
A1677	XRCC4	WB,IHC,IF	H,M,R
A0884	XRCC5	WB,IHC,IF,IP	H
A5862	XRCC5	WB,IHC,IF,IP	H
A7330	XRCC6	WB,IHC,IF,IP	H,M,Mk
A0883	XRCC6	WB,IHC,IF	H,M,R,Mk



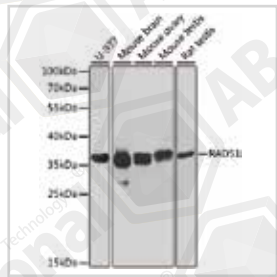
A0942 PARP1



A1848 DDB2



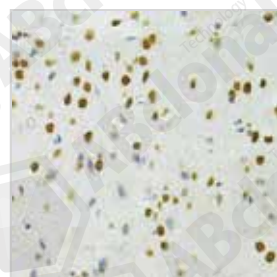
A3078 RAD50



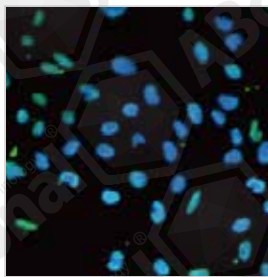
A6268 RAD51



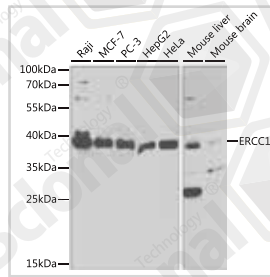
A0264 PCNA



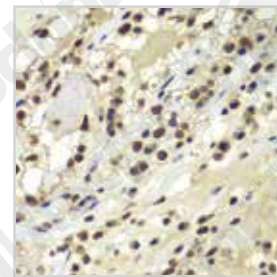
A11549 BRCA1



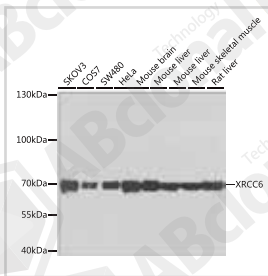
A5862 Ku80/XRCC5



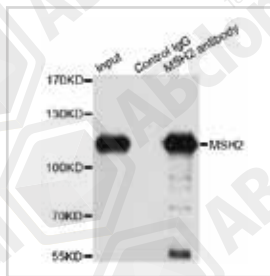
A5291 ERCC1



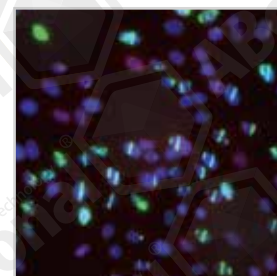
A7716 DNA-PKcs



A0883 Ku70/XRCC6



A1121 MSH2

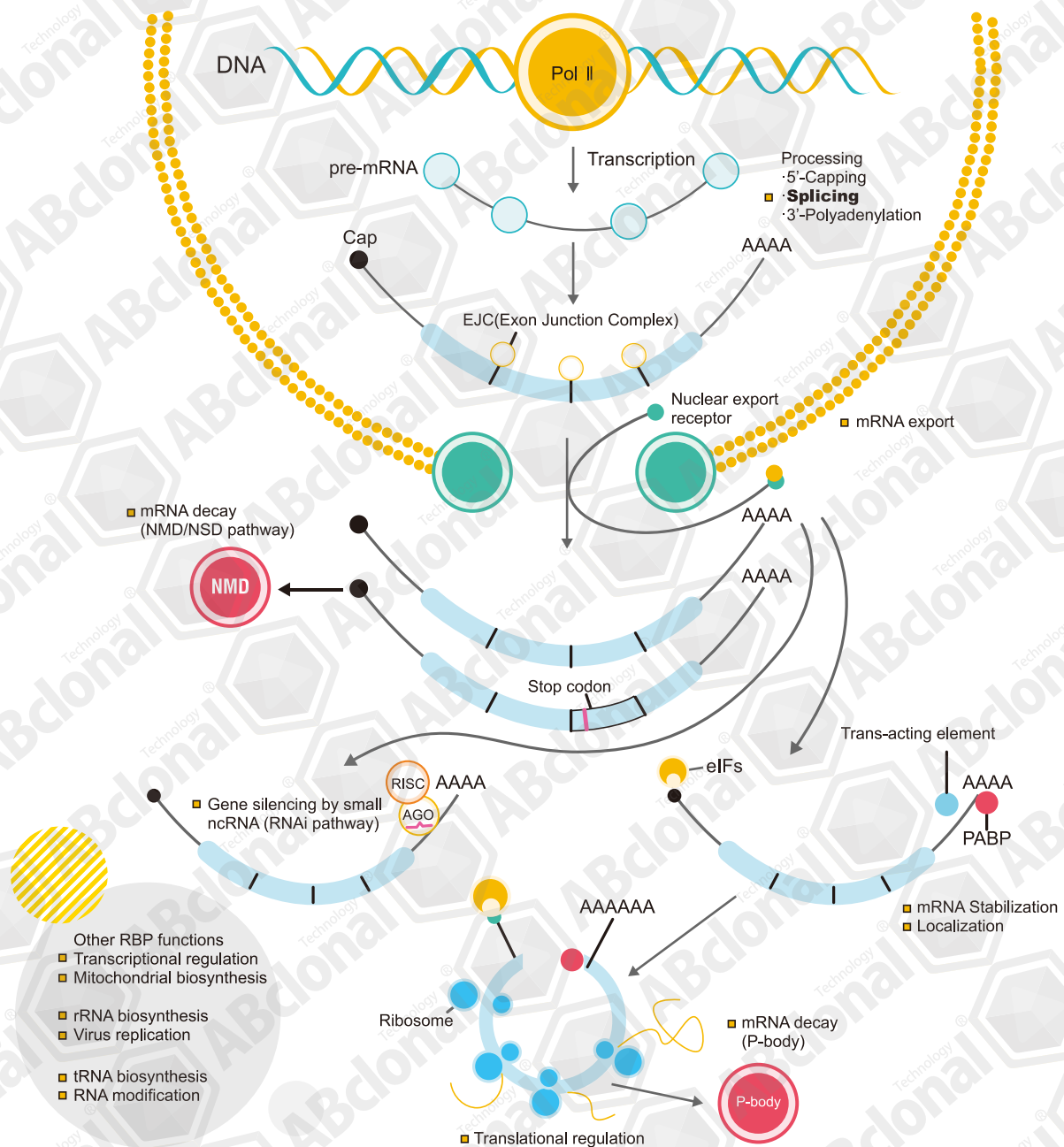


A3177 MSH6

RNA-Binding Proteins

RNA biology is the interaction between RNAs and RNA-binding proteins (RBPs) inside dynamic ribonucleoproteins (RNPs). Both the RBP repertoire and RBP activities of cells respond to a multitude of biological cues and environmental stimuli. Therefore, it is unsurprising that numerous diseases have been linked to defects in RBP expression and function, including neurophaties, muscular atrophies, metabolic disorders, and cancer.

RBPs determine the fate of RNA because they are the primary regulatory factors of the various post-translational stages, including alternative splicing, polyadenylation, mRNA localization, translation, and degradation.



RNA Binding Proteins List

Catalog	Name	Applications	Cross-Reactivity
A2807	ACIN1	WB	H,M,R
A3284	ACTN4	WB,IHC,FC	H
A7869	ADAR	WB,IHC,IF	H,M,R
A1592	ADD1	WB	H,M
A15023	ADK	WB	H,M,R
A15024	ADK	WB	H,M
A6023	EIF2C2	WB,IHC	H,M,R
A6802	EIF2C2	WB,IHC	H,M
A3049	AKAP8	WB,IHC	H,R
A3050	AKAP8L	WB,IHC	H,M,R
A3309	ALDH6A1	WB	H,M,R
A14750	ALDH6A1	IHC	H,M,R
A9223	ALKBH5	WB	H
A6010	ALYREF	WB,IHC	H,M,R
A14902	ANKHD1	WB,IHC	H
A8224	ANKHD1	WB	H,M,R
A12397	ANXA2	WB,IHC,IF	H,M,R
A1572	ANXA2	WB,IF	H,M
A13467	APEH	WB,IF	H,M,R
A5893	APEH	WB,IP	H,M,R
A2980	API5	WB,IHC	H,M
A14510	APOBEC3C	WB	H
A6011	AQR	WB,IHC	H,M,R
A14993	ARCN1	WB	H,M
A4274	ARHGEF1	WB	H
A2012	ASS1	WB	H,M,R
A5884	ATP5A1	WB,IHC,IF,IP	H,M,R
A8669	ATP5C1	WB,IHC,FC	H
A15257	ATP5C1	WB	H,M,R
A5902	ATXN2	WB	H,M
A8586	BCCIP	WB,IHC	H,M,R
A15234	BCLAF1	WB,IHC	H
A15367	BMS1	WB	H,M,R
A12315	BST2	WB	H
A3436	C14orf166	WB,IHC	H
A7648	C4BPA	WB	H,R
A14484	C7orf50	WB	H
A1066	CALR	WB,IF,IP	H,M,R
A0803	CANX	WB,IHC	H,M,R
A7910	CAPRIN1	WB,IHC	H,M,R
A5967	CASC3	WB,IHC	H
A13683	CAST	WB	H,M,R
A0097	CAST	WB,IHC	H,M,R
A7634	CAST	WB	H,M,R
A6334	CCAR1	WB,IP	H
A13595	CCAR1	WB,IF,IP	H
A9920	CCAR2	WB,ICC,IP	H,M,R,Mk
A14436	CCDC124	WB	H,M,R
A14298	CCDC124	WB	H,M,R
A3372	CCT4	WB,IHC	H,M
A6548	CCT4	WB,IHC,IF	H,M,R
A3589	CCT6A	WB,IHC	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A9710	CEBPZ	WB	H
A5958	CELF1	WB	H,M
A13478	CHD2	WB	H
A5895	CHD2	WB	H,M,R
A2221	CHD3	WB	H,M
A9903	CHD3	WB,IHC,FC	H
A9702	CHERP	WB	H,M
A3788	CIRBP	WB,IHC,IF,IP	H,M,R
A6080	CIRBP	WB	H,M,R
A6559	CIRBP	WB,IHC,IF	H,M,R
A8593	CIRH1A	WB	H,M
A5231	CISD2	WB	H,R
A14168	CISD2	WB	H,M
A7777	CKAP4	WB,IHC	H,M,R
A4468	CKAP4	WB,IHC	H
A9739	CLNS1A	WB,IHC,FC	H
A9034	CNBP	WB,IHC	H,R
A15110	CNBP	WB	H,M
A9300	CORO1A	WB	H,M,R
A15402	CPEB3	WB	H,M,R
A9699	CPEB4	WB,IHC	H,M
A14689	CPNE3	WB	H,M
A5963	CPSF6	WB	H,M,R
A0511	CRKL	WB	H,M
A11735	CRKL	WB	H,M,R
A5941	CSDE1	WB,IP	H,M
A1071	CSRP1	WB,IP,RIP	H,M
A3815	CSTB	WB,IHC,IF	H
A5915	CSTF1	WB	H,M,R
A8116	CSTF2	WB	H,M,R
A4540	CSTF2T	WB	H,M
A5635	CTNNA1	WB,IHC,IP	H,M,R
A2714	DAP3	WB,IHC	H,M,R
A3342	DAP3	WB	H
A7003	DAP3	WB	H,M,R
A6574	DARS	WB,IHC,IP	H,M,R
A7280	DCD	WB,IF	H,M
A1669	DCN	WB,IHC,IF	H,M,R
A6575	DDX1	WB,IHC,IF,IP	H,M,R
A5957	DDX17	WB,IHC,FC	H,M
A15481	DDX24	WB	H
A5637	DDX3X	WB,IF	H,M
A10099	DDX3X	WB,ICC,IP	H,M
A6576	DDX41	WB,IHC,IF,IP	H,M,R
A10359	DDX47	WB,IHC	H,M,R
A9428	DDX49	WB,IHC,FC	H
A13294	DDX5	WB,IHC,IF	H,M,R
A5296	DDX5	WB,IF	H,M
A8628	DDX50	WB,IHC	H,M
A15580	DDX51	WB	M,R
A9487	DDX56	WB	H,R
A3829	DDX6	WB	H

Catalog	Name	Applications	Cross-Reactivity
A5191	DHX36	WB	M,R
A14724	DHX8	WB	H
A5585	DHX9	WB,IHC,IF	H
A5772	DIAPH1	WB,IF	H,M
A7589	DIMT1	WB	H,M
A12914	DKC1	WB	H
A4633	DNAJC2	WB	H,M
A8336	DROSHA	WB	H
A13299	DSP	WB,IHC	H,M
A3840	DUT	WB,IHC	H
A5916	DYNC1H1	WB	H,R
A9153	EBNA1BP2	WB	H,M,R
A2283	EDF1	WB,IHC	H,M,R
A0831	EEF1A1	WB,IHC,IF,FC	H
A0974	EEF1A1	WB,IF	H,M,R
A0099	EEF2	WB,IF	H
A2068	EEF2	WB	H
A4291	EFTUD2	WB,IHC	H
A7040	EFTUD2	WB,IHC,IF,IP	H,M,R
A5917	EIF1AX	WB,IHC	H,M,R
A0764	EIF2S1	WB	H,M
A9905	EIF2S1	WB,IF,IP	H,M,R
A14498	EIF2S2	WB	H,M,R
A0573	EIF3A	WB,IHC,IF	H,M,R
A7022	EIF3C	WB,IHC,IF	H,M,R
A5947	EIF3D	WB	H,M
A4240	EIF3G	WB	H,M,R
A7024	EIF3H	WB,IF,IP	H,M,R
A13378	EIF3H	WB,IHC,IF,IP	H,M,R
A5294	EIF4A1	WB,IF	H,M,R
A3849	EIF4A2	WB,IHC	H,M,R
A4338	EIF4A3	WB,IHC	H,M,R
A5405	EIF4B	WB,IHC,IF,IP	H,M
A13300	EIF4B	WB,IHC,IF	H,M,R
A6086	EIF4G	WB	H
A0881	EIF4G1	WB,IHC,IF,IP	H,M,R
A7552	EIF4G1	WB,IHC,IF	H
A2897	EIF4G2	WB,IHC	H,M,R
A13616	EIF4G2	WB,IHC	H,M,R
A15123	EIF5B	WB	H
A7128	ELAC2	WB,IHC,IF	H
A6089	ELAVL1	WB,IHC	H,M
A1608	ELAVL1	WB,IHC,IF	H,M,R
A5918	ELAVL2	WB,IHC	H,M,R
A1033	ENO1	WB,IF,IP	H,M
A0897	ENO1	WB,IHC,IF,FC	H,M
A5974	ERAL1	WB	H
A10382	ERAL1	WB	H,M,R
A5920	ETF1	WB	H,M,R
A0703	EZR	WB,IHC	H,M,R
A3389	FAM120A	WB,IHC,IF	H
A13187	FAM208A	WB	H
A12765	FAM46A	WB	H,M
A0461	FASN	WB,IHC,IF	H,M
A0462	FASN	WB,IHC,IF	H
A7384	FASTKD1	WB,IHC	H,M,R
A13490	FBL	WB,IHC,IF,IP	H,M,R,Mk
A0158	FBL	WB	H
A1136	FBL	WB,IF,IP	H,M,Mk
A5744	FDPS	WB,IHC,IF	H,M,R
A7138	FIP1L1	WB,IHC,IF	H,M,R
A6907	FKBP3	WB,IF	H

Catalog	Name	Applications	Cross-Reactivity
A5643	FKBP4	WB,IHC,IF,IP	H,M
A0927	FLNA	WB	H,M
A7896	FLNA	WB,IHC	H,M,R
A10865	FLNA	WB,IHC,IF	H,M,R
A15556	FLYWCH2	WB	H
A6092	FMR1	WB	H,R
A5867	FSCN1	WB,IHC,FC	H
A13355	FSCN1	WB,IHC	H,M,R
A1904	FSCN1	WB,IHC	H,M,R
A9994	FTSJ3	WB	H
A5587	FUBP1	WB,IHC	H,M
A7948	FUBP3	WB,IHC	H,M
A5921	FUS	WB	H
A5942	FXR1	WB	H,M,R
A4313	FXR2	WB	H,M
A14092	FXR2	WB	H,M,R
A14836	G3BP1	WB	H
A13851	GANAB	WB	H,M,R
A5077	GFM1	WB,IHC,IF	H,M,R
A5892	GLRX3	WB	H
A13393	GNB2L1	WB,IHC,IF	H,M,R
A2560	GNB2L1	WB,IF	H,M
A1275	GNB2L1	WB,IHC	H
A0151	GNB2L1	WB,IHC,IF	H,M
A6805	GNL2	WB	H
A6459	GNL3	WB,IF,IP	H
A0039	GRB2	WB,IHC	H
A5689	GRB2	WB,IHC,IF	H,M
A12440	GRN	WB,IHC	H
A5773	GRN	WB	H,M
A6002	GRWD1	WB	H
A4578	GSPT2	WB	H,M
A8732	GTF2E2	WB	H,M,R
A4565	GTPBP4	WB	H
A3298	H1FO	WB,IHC	H,M,R
A5716	HADHB	WB,IF	H,M,R
A13654	HDGF	WB,IF	H
A5347	HDGF	WB,IHC	H,M,R
A6028	HDLBP	WB	H,M,R
A13102	HEATR1	WB	H
A3299	HIST1H1C	WB	H
A8353	HLTF	WB	H
A0718	HMGB1	WB,FC	H,M,R
A0719	HMGB1	WB,IHC,FC	H,M,R
A2553	HMGB1	WB,IHC,IF	H,M,R
A10889	HMGB1	WB,IHC,IF	H,M,R
A2260	HMGB2	WB	H
A6029	HNRNPA0	WB,IHC	H,M,R
A2622	HNRNPA1	WB,IHC	H,M,Pig
A7170	HNRNPA1	WB	H
A7491	HNRNPA1	WB,IHC,IF	H,M,R
A1162	HNRNPA2B1	WB,IHC,IF	H,M,R
A9669	HNRNPA3	WB	H
A0057	HNRNPC	WB,IHC	H
A1828	HNRNPD	WB,IHC,IF	H,M,R
A10721	HNRNPD	WB	H,M
A5505	HNRNPF	WB,IF	H,M
A5924	HNRNPH1	WB	H,M,R
A1701	HNRNPK	WB,IHC,IF	H,M,R
A8430	HNRNPL	WB,IHC,IF	H,M,R
A12447	HNRNPL	WB,IF	H,M,R
A10360	HNRPLL	WB	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A6937	HNRNPM	WB,IHC,IF	H,M,R
A5883	HNRNPR	WB,IHC	H,M,R
A3917	HNRNPU	WB	H
A9907	HNRNPU	WB	H,M
A4392	HRSP12	WB	H,M,R
A13501	HSP90AA1	WB,IP	H,M,R,Mk
A0015	HSP90AA1	WB	H,M
A0365	HSP90AA1	WB,IF	H,M,Mk
A10167	HSP90AA1	WB	H,M,R
A1087	HSP90AB1	WB,IHC,IF	H,M,R,Mk
A2487	HSPA8	WB	H,M
A14001	HSPA8	WB,IF	H
A10898	HSPA8	WB,IHC,IF,IP	H,M,R
A0558	HSPA9	WB,IHC,IF	H,M,R
A0055	HSPA9	WB	H
A0090	HSPB1	WB,IHC	H
A0240	HSPB1	WB,IHC	H,M,R
A10606	HSPB1	WB,IHC	H,M,R
A0045	HSPD1	WB,IHC,FC	H,M,R
A0969	HSPD1	WB,IHC,IF,IP	H,M,R
A10906	HSPD1	WB,IHC	H,M,R
A7437	HSPE1	WB,IHC,IF	H,M,R
A10929	HTATSF1	WB,IHC	H
A14542	HTATSF1	WB	H
A14002	IFI16	WB,IHC	H,M,R
A2007	IFI16	WB,IF	H,M
A8841	IFIT2	WB	H
A13581	IGF2BP1	WB,IP	H,M
A1517	IGF2BP1	WB,IHC	H,M,R
A2749	IGF2BP2	WB,IHC	H,M
A14103	IGF2BP2	WB	H,M,R
A1774	IGF2BP2	WB	H,M,R
A2750	IGF2BP3	WB,IHC	H,M,R
A4444	IGF2BP3	WB,IHC,IP	H,M
A6099	IGF2BP3	WB,IP	H,M
A2496	ILF3	WB,IHC	H,M
A4471	IMMT	WB,IHC,FC	H
A2751	IMMT	WB,IP	H,M
A13828	ISY1	WB	H,M
A6101	KHDRBS1	WB,IHC	H,M,R
A4446	KHDRBS1	WB,IHC	H,M
A9784	KHSRP	WB,IHC,IF	H
A4487	KRR1	WB	H,M
A0388	KRT18	WB,IHC,IF,FC	H,M
A0389	KRT18	WB,ICC	H,Mk
A1022	KRT18	WB	H,M
A5879	KTN1	WB,IHC	H
A12456	KTN1	WB	H,M,R
A4543	LARP1	WB	H
A5108	LARP4	WB	H,M
A13095	LARP7	WB	H,M
A2733	LGALS1	WB,IHC	H,M,R
A1580	LGALS1	WB	H,M,R
A13506	LGALS3	WB	H,M
A10607	LGALS3	WB,IHC	H,M,R
A15534	LLPH	WB	H
A10963	LRP1	WB,IHC,IF,IP	H,M,R
A3365	LRPPRC	WB,IHC	H,M,R
A10022	LRRC59	WB	H,M,R
A5976	LSM1	WB,IHC	H
A12732	LSM1	WB,IHC	H
A3408	LSM14A	WB,IHC	H

Catalog	Name	Applications	Cross-Reactivity
A7988	LSM2	WB,IHC,IF	H
A13189	LSM3	WB	H,M
A13588	LSM4	WB,IF,IP	H
A5891	LSM4	WB,IHC,IP	H,M,R
A2502	LTA4H	WB,IF	H,M
A14022	LTA4H	WB	H,M
A9596	LUC7L2	WB,IHC,FC	H
A13096	LUC7L2	WB	H,M
A9612	LYAR	WB,IHC	H
A5919	MARK2	WB,IHC,IP	H,M,R
A5905	MATR3	WB	H,M,R
A9451	MAZ	WB	H
A8054	MBNL1	WB,IHC,IF	H,M,R
A13516	MDH2	WB,IF	H,M
A6297	MDH2	WB,IHC	H,M
A0706	MECP2	WB,IHC,FC	H
A13328	MECP2	WB,IF	H,M
A5694	MECP2	WB	H,M,R
A5962	METAP2	WB	H,M
A2094	MKI67	WB,IF	H
A11005	MKI67	WB,IHC,IF	H,M
A11907	MKI67	WB,IHC,ICC,IF	H,M,R
A4816	MRM3	WB	H
A4947	MRPL1	WB,IHC	H
A4945	MRPL11	WB,IHC	H,M,R
A5979	MRPL13	WB	H,M,R
A14122	MRPL13	WB	H,M
A5897	MRPL28	WB,IHC,IF,IP	H,R
A10016	MRPL32	WB	H,M
A10023	MRPL39	WB	H,M,R
A12811	MRPL42	WB	H
A5052	MRPL45	WB	H
A13197	MRPL45	WB	H,M
A4754	MRPS23	WB	H
A4660	MRPS28	WB	H
A5841	MRPS30	WB,IHC,IF,IP	H,M,R
A4390	MRPS31	WB	H
A12923	MRPS31	WB	H
A4429	MYBBP1A	WB,IHC	H,M,R
A15238	NAP1L4	WB	H
A7293	NCBP2	WB,IHC,IF	H,M,R
A5904	NCL	WB,IHC	H,M,R
A14664	NDUFV3	WB	H,M
A7006	NELFE	WB,IF	H
A14509	NGDN	WB	H,R
A14546	NGDN	WB	H,M,R
A5991	NHP2	WB	H
A8843	NIFK	WB	H
A4734	NIP7	WB	H,M
A4853	NKRF	WB	H,M,R
A4707	NMD3	WB	H,M
A0087	NME1	WB,IHC	H,R
A0259	NME1	WB,IHC,IF	H,M,R
A15509	NOC4L	WB	H
A14292	NOL12	WB	H
A14420	NOL6	WB	H,M,R
A5899	NOLC1	WB,IHC	H
A5282	NONO	WB,IHC,IF	H,M,R
A10361	NOP14	WB	H
A14128	NOP16	WB	H,M,R
A13697	NOP16	WB	H,M
A14129	NOP58	WB	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A4749	NOP58	WB	H
A10024	NOSIP	WB	H
A0485	NPM1	WB,IHC,IF,FC	H,M
A0486	NPM1	WB	H,M,R
A0047	NQO1	WB	H,M
A1518	NQO1	WB	H,M
A4482	NUDT21	WB	H,M
A3995	NVL	WB	H,M
A2775	OASL	WB,IHC	H
A0692	P4HB	WB,IF,IP	H,M
A0709	P4HB	WB,IHC,FC	H
A14037	PA2G4	WB,IF	H,M,R
A5376	PA2G4	WB,IHC,IF	H,M,R
A14872	PABPC1	WB	H,M,R
A5948	PABPC4	WB,IHC	H,M,R
A6041	PABPN1	WB	H,M
A6941	PARN	WB,IF	H
A11010	PARP1	WB	H,M
A0942	PARP1	WB,IHC	H,R
A0010	PARP1	WB	H,M
A2432	PARP1	WB,IF,IP	H,M,R,Mk
A14317	PARP12	WB	H,M,R
A1044	PCBP1	WB,IHC	H,M,R
A2531	PCBP2	WB,IHC,IF	H,M,R
A6006	PCSK9	WB,IHC,FC	H,M
A7860	PCSK9	WB,IHC	H,M,R
A0117	PDIA3	WB,IHC,FC	H
A1085	PDIA3	WB,IHC	H,M,R
A4326	PDIA4	WB,IHC	H
A0578	PEBP1	WB,IF,IP,RIP	H,M
A0577	PEBP1	WB,IHC	H,M
A2787	PEG10	WB	H
A2333	PHF5A	WB,FC	H
A7393	PHF6	WB	H,M
A6003	PHF6	WB	H
A0268	PKM	WB,IF	H
A0540	PKM	WB,IF	H,M,R
A7158	PKM2	WB,IHC,IF	H,M,R,Mk
A13905	PKM	WB	H,M,R
A5048	POLDIP3	WB,IHC,IF	H,M
A5928	POLR2B	WB,IHC	H,M,R
A7920	POU5F1	WB,IHC	H,M,R
A2777	POU5F1	WB,IHC	H,M
A5994	PPAN	WB	H
A0113	PPIA	WB,IHC,FC	H,M
A0993	PPIA	WB	H,M,R
A7713	PPIB	WB	H,M,R
A11095	PPIB	WB	H,M,R
A7061	PPIE	WB,IP	H,M,R
A13524	PRDX1	WB,IF	H,M
A1842	PRDX1	WB,IHC	H,M
A10920	PRPF31	WB	H
A5732	PRPF31	WB	H,M,R
A6053	PRPF8	WB,IHC,IF	H,M,R
A8483	PSIP1	WB	H,M,R
A14852	PSIP1	WB,IHC	H,M,R
A1040	PSMC1	WB,IHC,IF	H,M,R
A1061	PSMD4	WB	H,M,Mk
A10887	PSMD4	WB	H
A9209	PSPC1	WB	H,M
A6107	PTBP1	WB,IHC	H,M,R
A1831	PTBP1	WB	H,M

Catalog	Name	Applications	Cross-Reactivity
A6054	PTBP2	WB	H,M,R
A8497	PTCD3	WB,IHC	H,M,R
A1590	PTPN1	WB,IHC,IF	H,M,R
A6007	PTRF	WB,IHC	H
A4511	PUF60	WB	H,M,R
A6709	PUF60	WB,IHC,IF,IP	H,M,R
A13389	pum1	WB	H,M
A6108	PUM1	WB,IHC	H,M
A8720	PUS1	WB	H
A11814	RALY	WB	H
A8032	RALYL	WB	H
A0976	RAN	WB,IF	H,M,Mk
A0819	RAN	WB,IHC,FC	H,M
A13241	RBM12B	WB	H
A11839	RBM14	WB,IHC,FC	H
A9873	RBM15B	WB	H,M
A10025	RBM22	WB	H,M
A15496	RBM25	WB	H,M
A5997	RBM26	WB	H
A13119	RBM26	WB	H
A13120	RBM26	WB	M,R
A9191	RBM28	WB	H
A5931	RBM3	WB,IHC	H,M,R
A10139	RBM34	WB,IHC	H,M,R
A4073	RBM4	WB	H
A4964	RBM42	WB,IHC	H
A5954	RBM6	WB	H,M
A10391	RBM6	WB	H,M,R
A4074	RBMS2	WB	H
A11834	RBMX	WB	H
A4478	RBPM5	WB	H,M
A13105	RCC2	WB	H
A14777	RDX	WB	H,M,R
A14414	REXO4	WB	H
A1844	RPGR	WB	H,M
A9233	RPL10	WB	H
A5925	RPL10A	WB	H,M,R
A4083	RPL13	WB,IHC,IF	H,M,R
A6723	RPL13	WB,IHC,IF	H,M,R
A4265	RPL14	WB	H
A13384	RPL14	WB,IF	H,M,R
A6724	RPL14	WB,IHC,IF	H,M,R
A5934	RPL17	WB	H,M,R
A14254	RPL21	WB	H,M
A9655	RPL22	WB	H,M
A9202	RPL22	WB	H,M
A4292	RPL23	WB	H,M,R
A4086	RPL23A	WB	H,M,R,Mk
A14255	RPL24	WB	H
A5936	RPL27	WB,IHC	H,M
A13044	RPL27	WB	H,M
A15095	RPL28	WB	H,M,R
A4082	RPL3	WB,IHC	H,M
A6973	RPL3	WB	H,M,R
A9266	RPL30	WB	H,M
A13690	RPL30	WB	H,M,R
A4089	RPL31	WB,IHC,FC	H
A13001	RPL32	WB	H,M,R
A9043	RPL35	WB,IHC	H,M
A7793	RPL36	WB,IHC,IF	H,M,R
A5886	RPL4	WB	H,M,R
A5881	RPL6	WB,IHC,IF,FC	H

Catalog	Name	Applications	Cross-Reactivity
A15094	RPL6	WB	H,M,R
A5932	RPL7	WB	H,M
A14060	RPL7A	WB	H,M,R
A13713	RPL7A	WB	H,M
A10042	RPL8	WB,IF	H,M,R
A13633	RPLP0	WB,IHC,IF	H,M
A5557	RPLP0	WB,IHC,IF	H,M,R
A12497	RPN1	WB,IHC	H,M,R
A6726	RPN1	WB,IHC	H,M,R
A9973	RPP25	WB	H
A8479	RPP30	WB,IHC	H
A6056	RPS10	WB,IHC,IF	H,M,R
A5880	RPS10	WB,IHC,IF,IP	H,M,R
A5890	RPS12	WB,IHC,IF	H,M,R
A5938	RPS15	WB,IHC,FC	H
A10241	RPS15A	WB	H,M,R
A13231	RPS19BP1	WB	H
A6728	RPS2	WB,IHC	H,M,R
A4096	RPS20	WB	H
A10363	RPS20	WB	H,M,R
A4097	RPS21	WB	H
A9044	RPS24	WB,FC	H
A12123	RPS24	WB	H,M,R
A2027	RPS27A	WB	H,M,R
A14618	RPS27A	WB	H,M,R,Duck
A13543	RPS3	WB,IF	H,M
A2533	RPS3	WB,IHC	H,M,R
A11161	RPS3	WB,IHC,IF	H,M,R
A5885	RPS3A	WB,IHC,IF,IP	H,M,R
A6730	RPS4X	WB,IHC	H,M,R
A6975	RPS5	WB,IF	H,M,R
A0932	RPS6	WB,IHC,IF,FC	H,M,R
A6731	RPS7	WB,IHC,IF	H,M,R
A3242	RPS9	WB,IHC,FC	H
A13078	RRP12	WB	H
A14328	RRP36	WB	H
A4536	RRS1	WB,FC	H
A3114	RTN4	WB,IHC	H,M,R
A3138	RTN4	WB	H
A12345	S100A16	WB,IHC	H
A1631	S100A4	WB,IHC,IF	H,M,R
A7927	SAFB	WB,IHC	H,M,R
A12550	SAFB2	WB	H,M
A4330	SAFB2	WB,IHC	H,M,R
A8569	SART1	WB,IP	H,M,R
A12124	SART3	WB	H
A5876	SBDS	WB,IHC,IF	H,M,R
A7799	SCG3	WB,IHC	H,M,R
A5980	SCG3	WB	H
A3381	SEC23IP	WB	H
A15398	SEC23IP	WB	H
A4958	SECISBP2	WB	H
A6736	SECISBP2	WB,IHC,IF	H,M
A10923	SERBP1	WB	H,M,R
A2517	SERPINH1	WB,IF	H
A6424	SF1	WB,IHC	H,M,R
A5944	SF3A2	WB	H
A4465	SF3A3	WB	H,M,R
A5875	SF3B2	WB,IHC,IF	H,M,R
A4394	SF3B4	WB	H
A0958	SFPQ	WB,IHC,IF	H,M,R
A4560	SKIV2L2	WB,IHC,FC	H,M

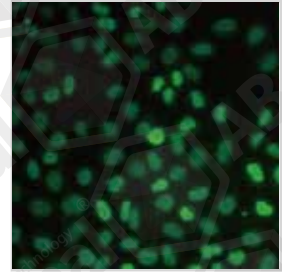
Catalog	Name	Applications	Cross-Reactivity
A5576	SKIV2L2	WB,IHC	H,M
A13921	SKIV2L2	WB	H,M
A1554	SLC16A3	WB,IHC	H
A5702	SLC3A2	WB,IHC	H,M
A15524	SLIRP	WB	H,M
A0681	SMNDC1	WB	H,M,R
A13415	SND1	WB,IHC,IF	H,M,R
A5874	SND1	WB,IHC,IF	H,M,R
A14786	SNRNP70	WB	M,R
A6065	SNRNP70	WB,IHC	H,M,R
A11838	SNRPD1	WB,IHC,FC	H
A14493	SNRPD1	WB	M
A6983	SNRPD2	WB,IHC,IF	H,M,R
A4120	SNRPD2	WB,IHC,FC	H
A13356	SNRPD2	WB,IF	H,M,R
A4122	SNRPG	WB,IF	H
A8856	SRFBP1	WB	M
A4125	SRP14	WB	H
A12926	SRP14	WB	H
A6752	SRP19	WB,IHC,IF	H,M,R
A10899	SRP72	WB,IHC,IF,FC	H
A5939	SRPR	WB	H
A6067	SRSF3	WB	H,M,R,Hamster
A4242	SFRS9	WB	H,M
A13265	SFRS9	WB	H
A0630	SSB	WB,IHC	H
A6987	SSBP1	WB,IHC,IF,IP	H,M
A13636	SSRP1	WB,IHC,IF	H
A6413	SSRP1	WB,IHC,IF	H,M
A3413	STAU2	WB	M,R
A14106	STIP1	WB,IF,IP	H,M,Mk
A1219	STIP1	WB,IHC,IF	H,M,Mk
A5964	STRAP	WB	H,M,R
A5420	STXPB1	WB,IF	H,M
A4463	SUB1	WB	H
A7070	SUB1	WB,IHC,IF,IP	H,M
A15345	SUCLG1	WB	H,M,R
A15378	SUGP2	WB	H,M
A0825	SUMO1	WB,IHC,IF,FC	H
A11230	SUMO1	WB,IHC,IF,IP	H,M,R
A9193	SUPT5H	WB	H,M
A9951	SUPV3L1	WB	H,M
A7219	SYNCRIP	WB,IHC,IF	H,M,R
A8465	TAF15	WB,IHC	H
A13405	TARDBP	WB,IHC	H,M
A13404	TARDBP	WB	H,M,R
A1183	TARDBP	WB,IHC,IF,IP,RIP	H,M,R
A0538	TARDBP	WB,IHC,IF	H,M
A15429	TBL2	WB	WB
A0276	TBRG4	WB,IF,IP	H,M,R
A14850	TCERG1	WB	H
A2512	TCOF1	WB	H
A8511	TEFM	WB,IHC	H,M,R
A4613	TES	WB	H
A7094	TES	WB	H
A13552	TFAM	WB,IHC	H,M
A1926	TFAM	WB,IF	H
A5865	TFRC	WB	H,M,R
A9396	THRAP3	WB	H,M
A12523	TIA1	WB,IHC	H,M
A12517	TIA1	WB,IF	H,M,R
A6075	TIAL1	WB	H

Catalog	Name	Applications	Cross-Reactivity
A9435	TNPO1	WB	H,M,R
A7741	TOP1	WB,IHC,IP	H,M
A3643	TOP1	WB,IF	H
A12524	TOP1	WB,IHC,IP	H,M
A11835	TPR	WB	H
A5442	TPT1	WB	H,M
A9580	TRA2B	WB,IHC	H,M
A2748	TRAP1	WB,IHC,IF	H,M,R
A4378	TRAP1	WB	H,M,R
A5940	TRIM25	WB	H
A12938	TRIM25	WB	H,M
A7116	TRMT1	WB,IHC	H,M
A5975	TRMT2A	WB,IHC	H,M,R
A7095	TRMT2A	WB,IHC	H
A3412	TRUB2	WB	H
A4842	TSR1	WB	H,M
A6423	TUFM	WB,IHC,IF,IP	H,M,R
A5860	TWF2	WB	H,M
A13642	TWF2	WB,IHC,IP	H,M
A0537	TXN	WB,IHC	H
A0053	TXN	WB	H
A7638	TXN	WB,IHC,IP	H,M
A14793	TXN	WB,IHC	H,M,R
A13166	U2AF1	WB	H,M,R
A1936	U2AF2	WB,IF,IP	H,M
A12359	UBA1	WB	H,R
A0673	UBA1	WB,IHC	H,M
A0105	UBE2I	WB,IHC	H
A2193	UBE2I	WB,IHC	H,M,R
A13558	UBE2I	WB,IF	H
A4175	UBE2L3	WB,IHC	H,M,R
A1090	UCHL5	WB,IHC,IP,FC	H,R
A7978	UCHL5	WB,IF	H,M,R
A13541	UPF1	WB,IHC	H,M
A1521	UPF1	WB,IF	H,M
A4236	USO1	WB,IHC	H
A2796	USO1	WB,IHC,IF	H,M
A7505	USP10	WB,IF	H,M
A15441	UTP18	WB	H,M
A15566	WDR36	WB	H
A7780	WDR6	WB	H,M,R
A6790	XPO5	WB,IHC,IF,IP	H,M,R
A0884	XRCC5	WB,IHC,IF,IP	H
A5862	XRCC5	WB,IHC,IF,IP	H
A7330	XRCC6	WB,IHC,IF,IP	H,M,Mk
A0883	XRCC6	WB,IHC,IF	H,M,R,Mk
A9554	XRN1	WB	H
A6791	YARS	WB,IP	H,M,R
A6799	YBX1	WB,IF	H
A7704	YBX1	WB,IHC	H,M,R
A7318	YTHDC1	WB,IF	H,M,R
A15004	YTHDC2	WB	H,M
A5985	YTHDF1	WB,IHC,IP	H,M,R
A13260	YTHDF1	WB	H,M
A9639	YTHDF2	WB	H
A8395	YTHDF3	WB,IHC	H,M,R
A1058	YWHAE	WB	H,M,R
A3043	YWHAG	WB	H,M,R
A0174	YWHAZ	WB,IHC,FC	H,M
A7639	YWHAZ	WB,IHC	H,M,R
A13370	YWHAZ	WB	H,M,R
A14797	YWHAZ	WB,IHC	H,M,R

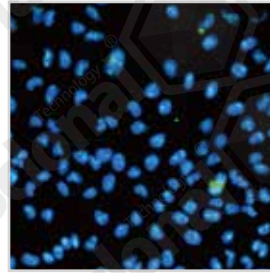
Catalog	Name	Applications	Cross-Reactivity
A10364	ZC3H14	WB,IHC	H,M,R
A10045	ZC3H15	WB	H,M
A13190	ZC3H7A	WB	H
A5972	ZCCHC11	WB	H,M
A1878	ZFP36	WB	H



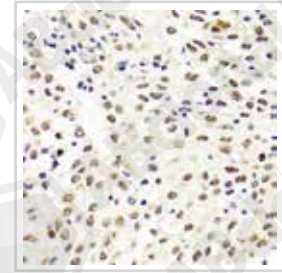
A1608 HuR/ ELAVL1



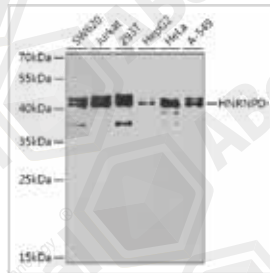
A5282 Nono



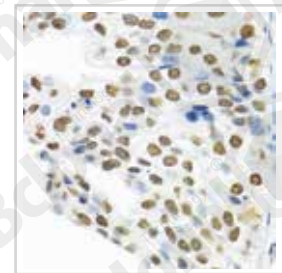
A1136 FBL



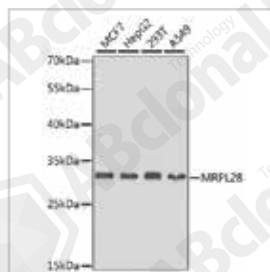
A6237 TIA1



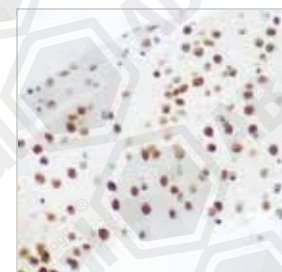
A1828 AUF1/HNRNPD



A6107 PTBP1



A5897 MRPL28



A6023 AGO2/EIF2C2

Hippo Pathway

The Hippo pathway controls organ size by regulating cell proliferation, apoptosis, and stem cell self-renewal. Past research suggested that the dysregulation of the Hippo pathway may contribute to cancer development.

The Core of the Mammalian Hippo Pathway

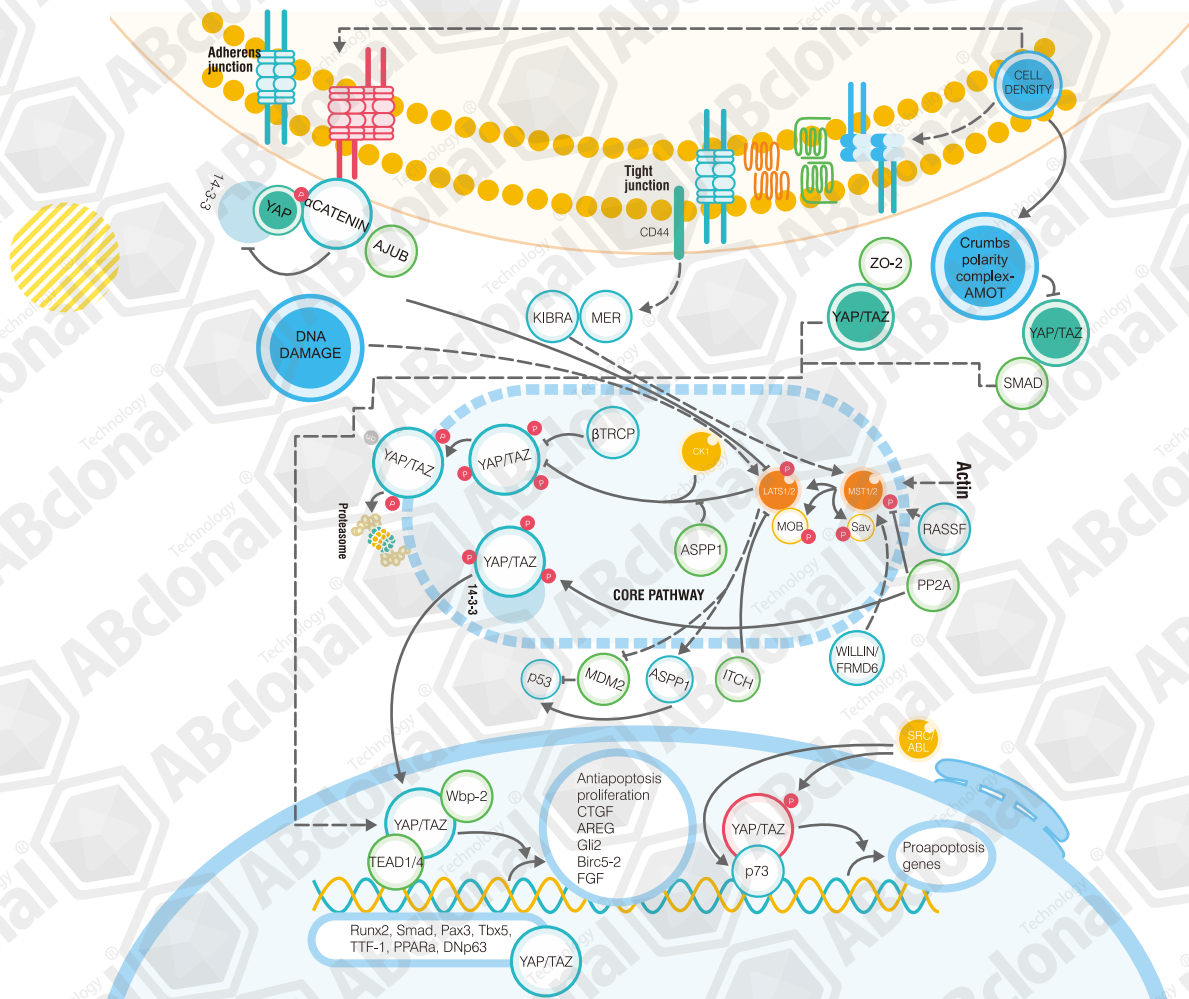
Not unlike the invertebrate cascade, in the mammalian Hippo pathway, the phosphorylation of the co-activators YAP and TAZ is caused by phosphorylation events via the *Drosophila* Mst ortholog, hippo and Wts (mammalian LATS1/2). Once phosphorylated, the protein kinase is activated, resulting in a series of changes in downstream processes.

Activation of the Mammalian Hippo Pathway

Yorkie (Yki) is a transcriptional co-activator; it cannot be directly combined with DNA, but needs to combine with the transcription factor Scalloped (Sd) to form the Yki-Sd complex, which plays a role in transcription regulation. The Yki-Sd transcription complex

can be regulated by multiple genes related to cell proliferation and transcription regulation, such as E cyclin. When the organ reaches a certain size, the pathway is activated and phosphorylated (activated) Wts can be phosphorylated by Yki, and the 168th serine is activated. Yki binds to 14-3-3 after phosphorylation (inactivation). This process allows Yki to reside in the cytoplasm, which cannot form a transcriptional regulatory complex with Sd, and inhibit the transcription of downstream target genes.

Within the nucleus, both YAP and TAZ can activate gene transcriptions by binding to TEAD1/4. The activated genes (CTGF, AREG, BIRC5-2, FGF, and GLI-2) are required to promote cell growth and inhibit apoptosis. When phosphorylated by the SRC/ABL kinases, YAP and TAZ are then able to bind with p73 and activate proapoptotic gene transcriptions. Scientists have described more than one transcription factor as YAP/TAZ binding partners, but the functional significance of the factors requires further research.



NF-kB Pathway List

Catalog	Name	Applications	Cross-Reactivity
A0001	AKT1	WB	H
A0205	AKT1	WB,IHC	H,R
A11016	AKT1	WB,IHC,IF	H,M,R
A10605	AKT1	WB	H
A11027	AKT1	WB,IHC,IF,IP	H,M,R
A11915	AKT1	WB,IHC,IF,IP,FC	H,M,R,Z
A11870	AKT2	WB,IHC,ICC,IF,IP,ChIP	H,M,R,Mk
A0504	AKT3	WB,IHC	H,M,R,Mk
A13789	ASCC2	WB	H,M,R
A5908	ATM	WB	H
A10745	ATM	WB,IF	H
A0191	BCL10	WB,IHC,IF,FC	H,M
A1106	BCL10	WB	H
A11582	BCL3	WB,IHC	H,M
A15010	BMP10	WB	H,M,R
A7321	BMP15	WB,IHC,IF	H,M,R
A12781	BMP2	WB,IHC	H,M,R
A0231	BMP2	WB,IHC	H,M,R
A14708	BMP2	WB,IHC	M,R
A2835	BMP3	WB	H
A6877	BMP3	WB,IHC	H,M,R
A11922	BMP4	WB,IHC	H,M,R
A8401	BMP5	WB,IHC	H,M,R
A8333	BMP6	WB	H,M,R
A0722	BMP7	WB,IHC,IF	H
A12315	BST2	WB	H
A1656	BTRC	WB,IF	H,M,R
A10965	CANT1	WB,FC	H
A7140	CARD11	WB,IHC,IF	H,M
A13196	CARD19	WB	H,M
A0218	CD40	WB	H,M,R
A13002	CD40LG	WB	H
A0327	CD40LG	WB,IF	H,M
A8480	CDC42EP3	WB	H,M,R
A5000	CDK5RAP3	WB	H,M,R
A13128	CDK5RAP3	WB	H
A2062	CHUK	WB,IHC,IF	H,M,R
A8593	CIRH1A	WB	H,M
A7738	CNTN2	WB	M,R
A5174	COMMD1	WB	H
A1334	CREBBP	WB,IHC,IF	H,M,R
A0435	CSNK2A1	WB,IHC	H
A2694	CSNK2A1	WB,IHC	H,M,R
A1014	CSNK2A1	WB	H,M,R
A3821	CYLD	WB	H,M,R
A7804	ECSIT	WB,IHC	H
A4461	EDAR	WB	H
A13615	EGF	WB	H
A2720	EGF	WB	M
A1324	EP300	WB	H
A9509	ERC1	WB	H

Catalog	Name	Applications	Cross-Reactivity
A5641	F2R	WB	H,M,R
A6164	GSK3B	WB,IHC	H,M,R
A0480	GSK3B	WB	H,M,R
A0479	GSK3B	WB,IHC	H,M,R
A3174	GSK3B	WB	H
A10877	GSK3B	WB,IHC,IF	H,M
A0421	HDAC1	WB	H
A0238	HDAC1	WB,IHC,IF	H,M,R
A2084	HDAC2	WB,IHC,IF,IP	H,M,R,Mk
A2139	HDAC3	WB,IHC,IF,IP,ChIP	H,M,R
A2603	HDAC3	WB,ICC	H
A12542	HDAC3	WB,IHC	H,M
A0179	HDAC4	WB,IHC	H,M,R
A0239	HDAC4	WB,IF	H,M,R
A5519	HDAC5	WB,IHC	H
A7189	HDAC5	WB,IF	H
A2288	HDAC6	WB,IHC	H,M
A1732	HDAC6	WB,IHC	H,M,R
A11259	HDAC6	WB,IHC,IP	H,M,R
A7285	HDAC7	WB,IF	H,M,R
A2323	HDAC8	WB,IP	H,M,R
A5829	HDAC8	WB,IHC	H,M,R
A1516	HDAC9	WB	H,M,R
A11102	HMOX1	WB	H,M,R
A11919	HMOX1	WB,IHC,IF,IP	H,M,R
A10962	IKBIP	WB	H
A10127	IKBKAP	WB	H,M,R
A2087	IKBKB	WB,IHC,IF	H,M,R
A0714	IKBKB	WB	M,R
A0713	IKBKB	WB,IHC,IF	H
A0244	IKBKE	WB	H,M
A0917	IKBKG	WB,IHC,IF	H,M,R
A1003	IKBKG	WB	H
A12536	IKBKG	WB	H,M
A1316	IL1A	WB,IHC	H,M
A2170	IL1A	WB	H
A11370	IL1B	WB,IHC	M,R
A0301	IL1B	WB,IHC,IF	H,M,R
A13268	IL1B	WB,IHC,IF	H,M,R,D,Hr,Ra
A5727	IL1R1	WB	H
A10922	INS	IHC,IF	H,M,R
A12624	IRAK1	WB	H,M,R
A6208	IRAK4	WB,IHC	H,M,R
A7073	LILRB4	WB	H,M
A5469	LITAF	WB,IHC	H,M
A9424	LPAR1	WB	H
A2144	MALT1	WB,IF	H,M
A2773	MAP3K14	WB,IHC	H,M,R
A2112	MAPK10	WB	H,M
A2441	MAPK14	WB,IHC,IP,FC	H,M,R
A8038	MAPK14	WB,FC	H,M,R
A10832	MAPK14	WB,IF	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A2462	MAPK8	WB	H,M,R
A6117	MAPK8	WB,IHC,IF	H
A0288	MAPK8	WB,IHC	H,M
A0505	MAPK9	WB,IHC	H
A1251	MAPK9	WB,IHC,IF	H,M
A4429	MYBBP1A	WB,IHC	H,M,R
A0786	MYD88	WB,IHC	H,R
A0980	MYD88	WB,IHC	H,M,R
A12229	NCKAP1	WB	H,M,R
A6667	NFKB1	WB,IHC,IF	H,M
A11160	NFKB1	WB,IHC,IF,IP	H
A11892	NFKB1	WB,IHC,IF,IP,FC,-ChIP	H,M,R
A14754	NFKB1	WB	H,M,R
A3108	NFKB2	WB,IHC	H,M,R
A5567	NFKB2	WB,IHC,IF	H,M,R
A11917	NFKB2	WB,IHC,IF,IP	H,M,R
A2457	NFKBIA	WB,IHC,IF,IP,FC	H,M,R,P
A11397	NFKBIA	WB,IF,IP	H,M
A1187	NFKBIA	WB	H,M,R
A5777	NFKBIB	WB,IHC,IF	H,M,R
A2643	NFKBID	WB,IHC	H,M,R
A10492	NFKBIZ	WB	H,M,R
A0258	NGF	WB	H,M
A14216	NGF	WB,IF	H,M
A4853	NKRF	WB	H,M,R
A6345	NLRP3	WB,IHC	H
A5652	NLRP3	WB	H,M,R
A14223	NLRP3	WB	H
A0155	NRAS	WB,IHC,FC	H
A11851	NRAS	WB	H
A2499	NUP62	WB,IHC,IF	H
A4877	OTUD7B	WB,IHC	H
A11010	PARP1	WB	H,M
A0942	PARP1	WB,IHC	H,R
A0010	PARP1	WB	H,M
A2432	PARP1	WB,IF,IP	H,M,R,Mk
A11402	PIK3R1	WB	M,R
A11177	PIK3R1	WB	H
A11442	PIK3R1	WB	H,M,R
A5241	PIK3R2	WB	H,M,R
A11086	PIK3R2	WB,IHC,IF,IP	H,R
A3650	PIK3R3	WB,IHC,IF	H
A11260	PIK3R3	WB,IHC,IF	H,M,R
A4686	PIK3R4	WB,IHC	H
A4562	PIK3R5	WB	H
A12468	PPP1CA	WB,IHC	H,M
A2184	PPP1CA	WB,IF	H,M
A4464	PRDX3	WB,IHC,FC	H
A13074	PRDX3	WB	H,M
A3076	PRDX3	WB,IHC,IF	H,M,R
A5324	PRKACB	WB,IHC,IF	H,M
A5834	PRKCQ	WB,IHC	H,M,R
A11201	RELA	WB,IHC,IF	H
A11204	RELA	WB	H,M,R
A11202	RELA	WB,IHC	H,R
A0450	RELA	WB,IHC,IF,FC	H,M
A2547	RELA	WB,IHC,IF	H,R
A10609	RELA	WB,IHC,IF,IP	H,M,R
A11155	RELA	WB,IHC,IF	H,M
A0519	RELB	WB	H,M
A2498	RIPK2	WB	H,M
A5431	RIPK3	WB	H,M,R

Catalog	Name	Applications	Cross-Reactivity
A8495	RIPK4	WB,IHC	H,M
A12580	RIPK4	WB	R
A11483	SQSTM1	WB,IHC,IF,IP	H
A11247	SQSTM1	WB,IHC,IF	H,M,R
A11246	SQSTM1	WB,IF	H
A7758	SQSTM1	WB,IHC,IF	H,M,R
A11250	SQSTM1	WB	H,M,R
A0825	SUMO1	WB,IHC,IF,FC	H
A11230	SUMO1	WB,IHC,IF,IP	H,M,R
A2571	SUMO2	WB,IF	H,M,R
A2486	SUMO2	WB,IHC	H,M,R
A10896	SUMO3	WB,IF	H,M
A3100	SUMO4	WB,IHC	H,M
A7517	SUMO4	WB,IF	H,M,R
A5749	TAB1	WB,IF	H,M
A2573	TBK1	WB	H,M
A7769	TFG	WB	H,M,R
A0997	TLR1	WB,IF	H,M,R
A5208	TMED4	WB	H
A3575	TMEM173	WB,IHC	H,M
A3262	TMEM173	WB	H,M,R
A11534	TNF	WB,IHC,IF	H,M,R
A0277	TNF	WB	H,M
A2127	TNFAIP3	WB	H,M
A6267	TNFRSF10A	WB,IHC	H
A1236	TNFRSF10B	WB	H
A9914	TNFRSF10B	WB,ICC	H,M
A0184	TNFRSF10D	WB,FC	H
A6136	TNFRSF10D	WB	H,M
A2100	TNFRSF11B	WB,IHC,IF	H,M,R
A13250	TNFRSF11B	WB	H,R
A13093	TNFRSF12A	WB	H
A1969	TNFRSF14	WB	H
A11832	TNFRSF14	WB	H
A1095	TNFR2	WB	H,M,R
A0387	TNFRSF1B	WB,IF	H
A2900	TNFRSF21	WB	H
A9783	TNFRSF25	WB	H
A14261	TNFRSF25	WB	H
A7651	TNFRSF8	WB	H
A5858	TNFSF13B	WB	H,M
A4404	TNIP1	WB	H
A0183	TRADD	WB,IHC,IF,FC	H
A1145	TRADD	WB,IHC	H,M,R
A0962	TRAF2	WB,IF	H,M,R
A0875	TRAF3	WB,IHC	H,M,R
A15106	TRAF3	WB,IF	H,M,R
A3094	TRAF3	WB,IF	H,M
A6776	TRAF3IP2	WB,IHC	H,M,R
A0973	TRAF6	WB,IF	H,M,R
A3368	TRAIIP	WB,IHC	H,M
A6779	TSC22D3	WB,IHC,IF	H,M,R
A1951	UBE2D1	WB,IHC	H,M,R
A6852	UBE2N	WB	H,R
A10543	UBE2N	WB	H,M,R
A6316	UBE2V1	WB,IF	H,M,R
A4208	USP11	WB,FC	H



" Very good image in Western blot. It is the correct size. "

Rabbit polyclonal BID antibody

A0210

" There is a correct size band. Good for western blot. "

Rabbit Polyclonal BCL2L11 antibody

A0295

" Great antibodies. Surprisingly clean blot for polyclonal antibodies."

Rabbit polyclonal YWHAZ antibody

A7639



" LDLRAP1 Polyclonal Antibody works very well for both western blot and immunofluorescence (IF). "

LDLRAP1 Polyclonal Antibody

A7093

" Exceptional quality for polyclonal antibodies. Very clean and strong bands at short exposure. Can be verified on both normal and cancer cell lysates. We incubated with primary antibodies overnight at 4C (1:5000) and with 1 hour with secondary antibodies at 37C. Exposed for 10 seconds."

Rabbit polyclonal VCP antibody

A7063



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