

APOPTOSIS PATHWAY

Ca²⁺ induced Cell Death Pathways

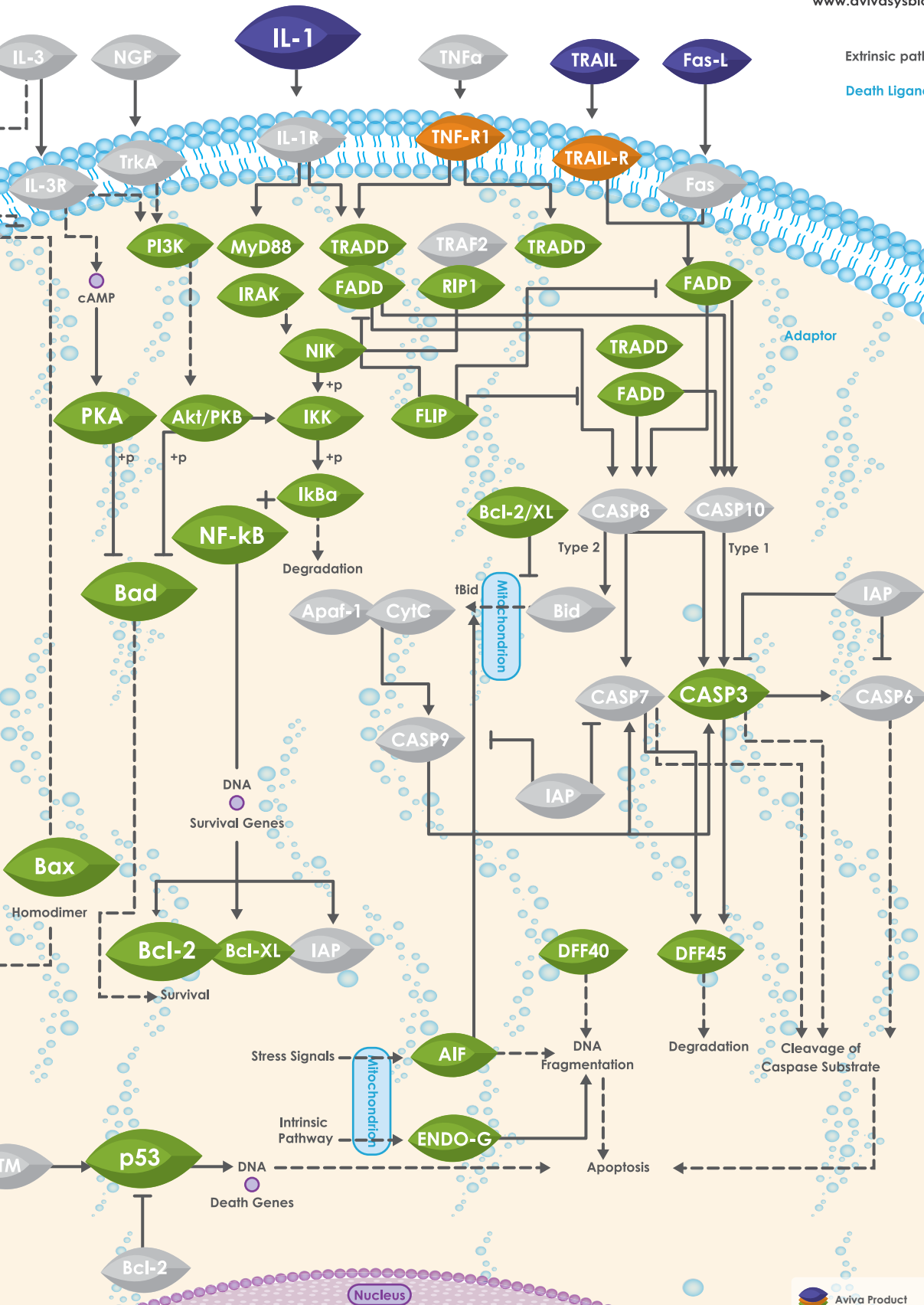
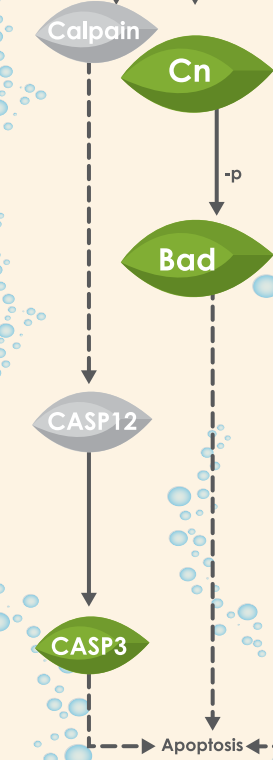
Survival Factors
Cytokine-cytokine receptor interaction

Extrinsic pathway
Death Ligand

Outside



Adaptor

[Ca²⁺]_i Rises
ER Stress



DNA Damage
Cell Cycle

Pathway diagram below is compiled from data from the Kyoto Encyclopedia of Genes and Genomes
Kanehisa, M., Goto, S., Furumichi, M., Tanabe, M., and Hirakawa, M.; KEGG for representation and analysis of molecular networks involving diseases and drugs. *Nucleic Acids Res.* 38, D355-D360 (2010). Kanehisa, M., Goto, S., Hattori, M., Aoki-Kinoshita, K.F., Itoh, M., Kawashima, S., Katayama, T., Araki, M., and Hirakawa, M.; From genomics to chemical genomics: new developments in KEGG. *Nucleic Acids Res.* 34, D354-357 (2006). Kanehisa, M. and Goto, S.; KEGG: Kyoto Encyclopedia of Genes and Genomes. *Nucleic Acids Res.* 28, 27-30 (2000).

-  Aviva Product
-  Not a Aviva Product
-  Another molecule, mostly chemical compound
-  Indirect effect
-  Inhibition
-  Dissociation
-  Phosphorylation
- Dephosphorylation

Apoptosis Pathway

| Catalog Number | Name | Species Reactivity | Validation | Size | Price |
|-----------------|--------|----------------------|------------|-------|-------|
| AVARP02013_P050 | AIFM1 | H,M,R | WB | 50ug | 289 |
| ARP30325_P050 | BAD | H | WB | 50ug | 289 |
| AVARP02022_P050 | BAK1 | H | WB | 50ug | 289 |
| AVARP02020_T100 | BAX | H,D | WB and IHC | 100ug | 229 |
| AVARP02020_T100 | BAX | H,D | WB and IHC | 100ug | 229 |
| AVARP01005_P050 | BCL2 | H | WB and IHC | 50ug | 289 |
| AVARP01005_P050 | BCL2 | H | WB and IHC | 50ug | 289 |
| ARP30475_T100 | BCL2L1 | H,D | WB | 100ug | 229 |
| AVARP02002_P050 | BCL2L1 | H,M,R | WB | 50ug | 289 |
| AVARP02008_P050 | BCL2L1 | H,D | WB | 50ug | 289 |
| ARP30475_T100 | BCL2L1 | H,D | WB | 100ug | 229 |
| AVARP02002_P050 | BCL2L1 | H,M,R | WB | 50ug | 289 |
| AVARP02008_P050 | BCL2L1 | H,D | WB | 50ug | 289 |
| AVARP00021_T100 | CASP3 | H | WB | 100ug | 229 |
| AVARP00021_T100 | CASP3 | H | WB | 100ug | 229 |
| ARP51289_P050 | CDH1 | H | WB | 50ug | 289 |
| AVARP00022_T100 | CFLAR | H | WB | 100ug | 229 |
| AVARP02011_P050 | CFLAR | H | WB | 50ug | 289 |
| AVARP14001_T100 | CTNNB1 | H,M,R,D, ZebraFishes | WB and IHC | 100ug | 229 |
| ARP46583_P050 | DCC | H | WB | 50ug | 289 |
| ARP52046_P050 | DFFB | H | WB | 50ug | 289 |
| ARP52046_P050 | DFFB | H | WB | 50ug | 289 |
| AVARP02023_T100 | DIABLO | H | WB | 100ug | 229 |
| ARP45198_P050 | DSG2 | H,M,R | WB | 50ug | 289 |
| ARP52054_P050 | END | H,M,R | WB | 50ug | 289 |
| AVARP01012_P050 | FADD | H | WB and IHC | 50ug | 289 |
| ARP30294_P050 | FADD | M | WB | 50ug | 289 |
| AVARP01012_P050 | FADD | H | WB and IHC | 50ug | 289 |
| ARP30627_P050 | FAS | H | WB | 50ug | 289 |
| ARP30627_P050 | FAS | H | WB | 50ug | 289 |
| AVARP02054_T100 | FASLG | H | WB | 100ug | 229 |
| AVARP02054_T100 | FASLG | H | WB | 100ug | 229 |
| ARP35646_T100 | HMGB1 | H, M, R, D | WB | 100ug | 229 |
| ARP38109_P050 | HMGB1 | H,M,R,D | WB | 50ug | 289 |
| ARP38110_T100 | HMGB1 | H,M,R,D | WB | 100ug | 229 |

| | | | | | |
|-----------------|-----------|---------|------------|-------|-----|
| ARP31939_P050 | HMGB2 | H,M,R | WB and IHC | 50ug | 289 |
| ARP58157_P050 | HMGB2 | H,M,R | WB | 50ug | 289 |
| ARP58158_P050 | HMGB2 | H | WB | 50ug | 289 |
| ARP30005_T100 | IKBK | H,D | WB | 100ug | 229 |
| ARP30006_P050 | IKBK | H | WB | 50ug | 289 |
| ARP54322_P050 | IL1A | H | WB | 50ug | 289 |
| ARP54323_P050 | IL1B | H | WB | 50ug | 289 |
| ARP54324_P050 | IL1B | H | WB | 50ug | 289 |
| ARP40709_P050 | IRAK3 | H | WB | 50ug | 289 |
| ARP56352_P050 | MYD88 | H | WB | 50ug | 289 |
| ARP56353_P050 | MYD88 | H | WB | 50ug | 289 |
| AVARP01037_P050 | NFKB1A | H | WB | 50ug | 289 |
| AVARP09044_P050 | NFKB1A | H,M,R | WB | 50ug | 289 |
| P100940_P050 | NFKB1A | H | WB | 50ug | 289 |
| ARP46299_P050 | NMT1 | H,M,R | WB | 50ug | 289 |
| ARP40199_P050 | PDCD8 | H,M,R,D | WB | 50ug | 289 |
| AVARP00028_P050 | PDCD8 | H | WB and IHC | 50ug | 289 |
| ARP56474_P050 | PSMB10 | H,M,R | WB | 50ug | 289 |
| ARP58519_P050 | PSME1 | H | WB | 50ug | 289 |
| AVARP02038_P050 | RIPK1 | H | WB | 50ug | 289 |
| AVARP02038_P050 | RIPK1 | H | WB | 50ug | 289 |
| ARP33363_P050 | SATB1 | H | WB | 50ug | 289 |
| ARP33362_P050 | SATB1 | H | WB | 50ug | 289 |
| ARP38208_T100 | SATB1 | H | WB | 100ug | 229 |
| AVARP02065_T100 | TNFRSF10A | H | WB | 100ug | 229 |
| AVARP00032_P050 | TNFRSF10B | H | WB | 50ug | 289 |
| AVARP00032_P050 | TNFRSF10B | H | WB | 50ug | 289 |
| AVARP02039_P050 | TNFRSF10C | H | WB | 50ug | 289 |
| AVARP00034_P050 | TNFRSF1A | H | WB | 50ug | 289 |
| AVARP00034_P050 | TNFRSF1A | H | WB | 50ug | 289 |
| AVARP02040_P050 | TNFRSF10 | H | WB | 50ug | 289 |
| AVARP02040_P050 | TNFRSF10 | H | WB | 50ug | 289 |
| ARP30307_P050 | TP53 | H | WB | 50ug | 289 |
| ARP30311_P050 | TP53 | H | WB | 50ug | 289 |
| ARP30312_P050 | TP53 | H | WB | 50ug | 289 |
| ARP33453_P050 | TP53 | H | WB | 50ug | 289 |
| AVARP02055_T100 | TP53 | H | WB | 100ug | 229 |
| AVARP02012_P050 | TRADD | H | WB | 50ug | 289 |