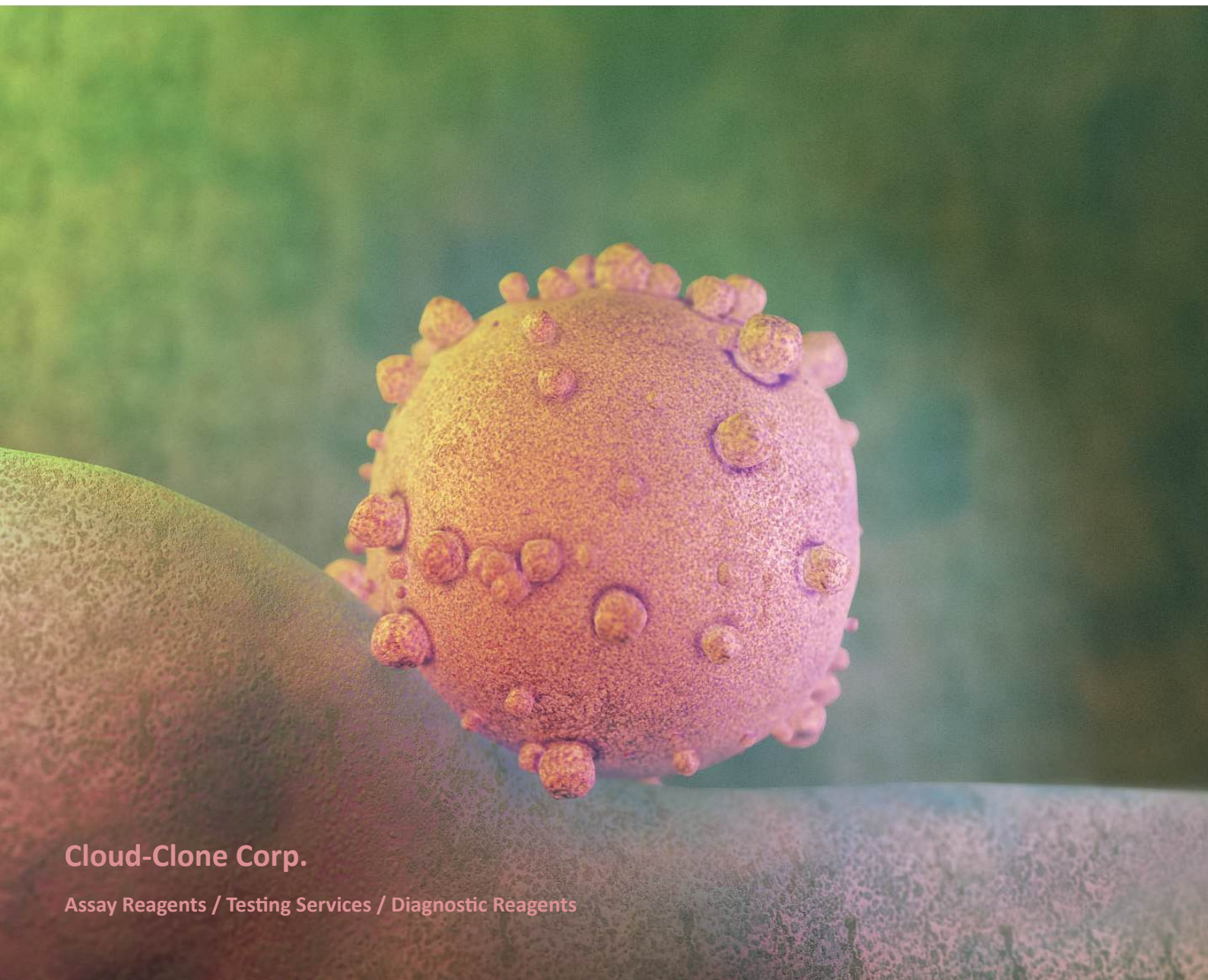# Pancreatic Cancer Biomarkers

Cloud-Clone Corp.

Assay Reagents / Testing Services / Diagnostic Reagents

CE

ISO
ISO 13485

ISO
ISO 9001

Pancreatic Cancer Biomarkers

Pancreatic cancer is one of the most invasive malignant tumors, its 5 year survival rate is less than 7%. It has serious threat to human health due to inadequate diagnosis and poor treatment. According to the WHO survey data, pancreatic cancer is expected to become the second-leading cause of cancer-related death in worldwide. The only effective treatment for pancreatic cancer is early radical surgery. However, due to the lack of specificity and early diagnosis of early symptoms, only about 15-20% of patients are able to undergo radical surgery in a timely manner, while the survival rate of advanced patients is less than 30%. This makes early diagnosis very critical for patients with pancreatic cancer. Pancreatic cancer biomarkers have many advantages such as simple sampling and convenient operation, and are considered to be ideal early diagnosis indicators and prognosis tracking indicators.

Cloud-Clone could provide multiple proteins, antibodies and ELISA kits of detection markers for Pancreatic Cancer, which can be used in testing human, mouse, rat, porcine, caprine, etc.

1. Cloud-Clone on sale items that related to Pancreatic Cancer Biomarkers

Cloud-Clone related index products of Pancreatic Cancer Biomarkers					
BRCA2	CEACAM-1	MDM2	MUC-1	PRSS2	Smad4
BRAF	EGFR	MSH2	MUC-4	PSCA	STK11
CDKN2A	ErbB2	MST1R	PLRP1	Ras	Tp53

2. Excellent citations that related to Cloud-Clone Pancreatic Cancer Biomarkers (Excerpt)

| Item	Species	Journals	IF	Pubmed ID	Institute
Tp53	Mouse	The Journal of Nutritional Biochemistry	4.414	26344777	Institute of Biomedical Nutrition, Hung-Kuang University
MUC1	Human	Cellular Microbiology	4.41	29156489	Institute for Molecular Infection Biology (IMIB), University of Würzburg
EGFR	Human	Molecular Cancer Therapeutics	5.365	26586721	MOGAM Biotechnology Institute, Yongin, Gyeonggi-do
MDM2	Human	Clinical Cancer Research	10.199	26408402	Department of Clinical Research, University and University Hospital of Berne
CDKN2A	Human	European Journal of Pharmaceutical Sciences	3.466	29597041	Nanomedicine Lab, Center of Materials Science (CMS), Zewail City of Science and Technology
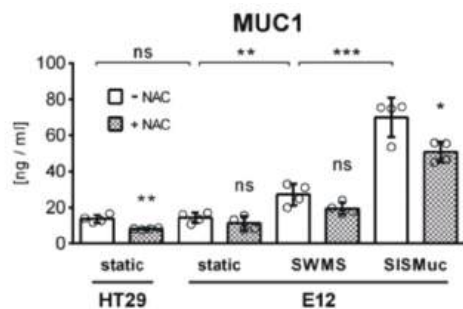
Figure . The concentrations of mucins MUC1 was determined before and after treatment with 60 mM N-acetyl Lcysteine (NAC) by ELISA. (Christian Reuter, 2017)
(Product No.: SEA413Hu   Sample type: tissue homogenate)
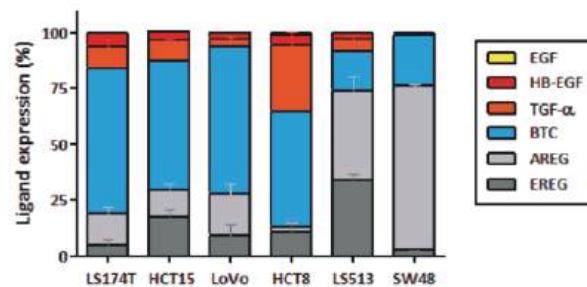

Figure . The basal levels of EGFR ligands expressed by the indicated cell lines were measured from the tumor xenografts.(Yangmi Lim, 2015)
(Product No.: SEA757Hu   Sample type: cell line)
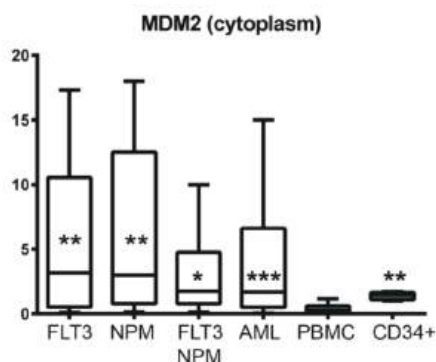

Figure . Relative quantitation of nuclear protein levels for CEBPA (A), KLF4 (B) p53 (C) and XPO1(D) normalized to Lamin-A (LMNA), and cytoplasmic protein levels for MDM2 (E) and CUL9 (F) normalized to GAPDH.(Katja Seipel, 2015)
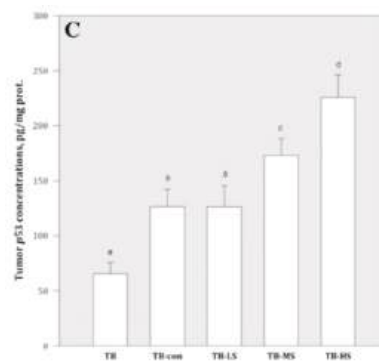(Product No.: SEA644Hu   Sample type: cell cytoplasm)

Figure . Tumor concentrations of p53 and bcl-2; Correlations of tumor MDA products with tumor. (Chih-Hung Guo, 2015)
(Product No.: SEA928Mu   Sample type: tissue homogenate)

3. Citation statistics that related to Cloud-Clone Pancreatic Cancer Biomarkers (Excerpt)

Mucin 1 (MUC1)

Product	Species	Citation
Protein / Antibody / ELISA kit	Human, Rat, Mouse	9

Excerpt：

1. Reuter C, Alzheimer M, Walles H, et al. An adherent mucus layer attenuates the genotoxic effect of colibactin[J]. Cellular microbiology, 2018, 20(2): e12812.

2. Cao H, Fang X, Li H, et al. Ultrasensitive detection of mucin 1 biomarker by immuno-loop-mediated isothermal amplification[J]. Talanta, 2017, 164: 588-592.

3. Maker A V, Katabi N, Gonen M, et al. Pancreatic cyst fluid and serum mucin levels predict dysplasia in intraductal papillary mucinous neoplasms of the pancreas[J]. Annals of surgical oncology, 2011, 18(1): 199-206.

Epidermal Growth Factor Receptor (EGFR)

Product	Species	Citation
Protein / Antibody / ELISA kit	Human, Rat, Mouse	7

Excerpt：

1. Lim Y, Yoo J, Kim M S, et al. GC1118, an anti-EGFR antibody with a distinct binding epitope and superior inhibitory activity against high-affinity EGFR ligands[J]. Molecular cancer therapeutics, 2016, 15(2): 251-263.

2. Regiart M, Fernández-Baldo M A, Villarroel-Rocha J, et al. Microfluidic immunosensor based on mesoporous silica platform and CMK-3/poly-acrylamide-co-methacrylate of dihydrolipoic acid modified gold electrode for cancer biomarker detection[J]. Analytica chimica acta, 2017, 963: 83-92.

3. Ortega F G, Piguillem S V, Messina G A, et al. EGFR detection in extracellular vesicles of breast cancer patients through immunosensor based on silica-chitosan nanoplatform[J]. Talanta, 2019, 194: 243-252.

Mdm2 p53 Binding Protein Homolog (MDM2)

Product	Species	Citation
Protein / Antibody / ELISA kit	Human, Rat, Mouse	4

Excerpt：

1. Seipel K, Marques M T, Bozzini M A, et al. Inactivation of the p53–KLF4–CEBPA Axis in Acute Myeloid Leukemia[J]. Clinical cancer research, 2016, 22(3): 746-756.

2. Wu L, Tang H, Hu S, et al. Sensitive and simultaneous surface plasmon resonance detection of free and p53-bound MDM2 proteins from human sarcomas[J]. Analyst, 2018, 143(9): 2029-2034.