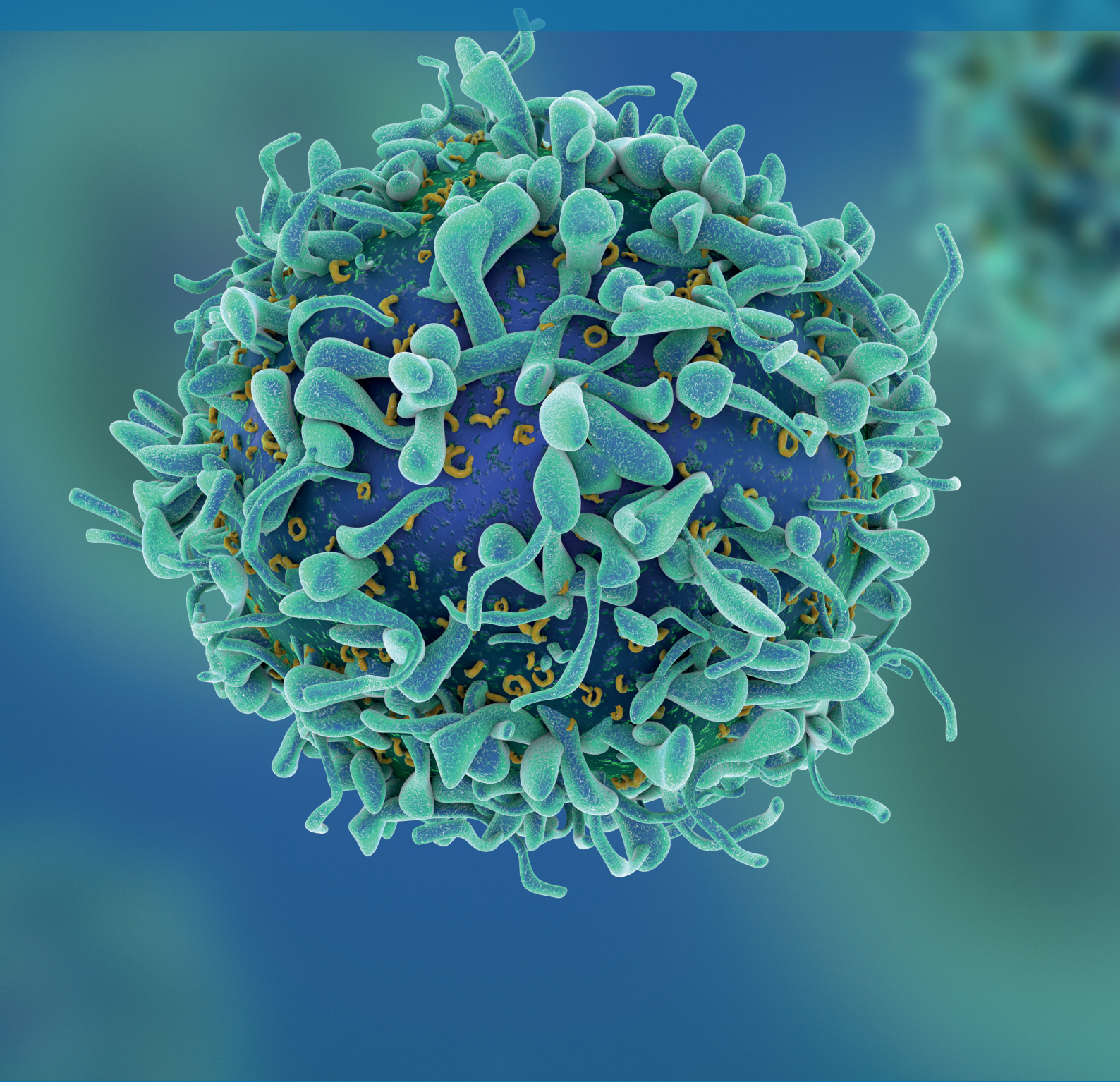
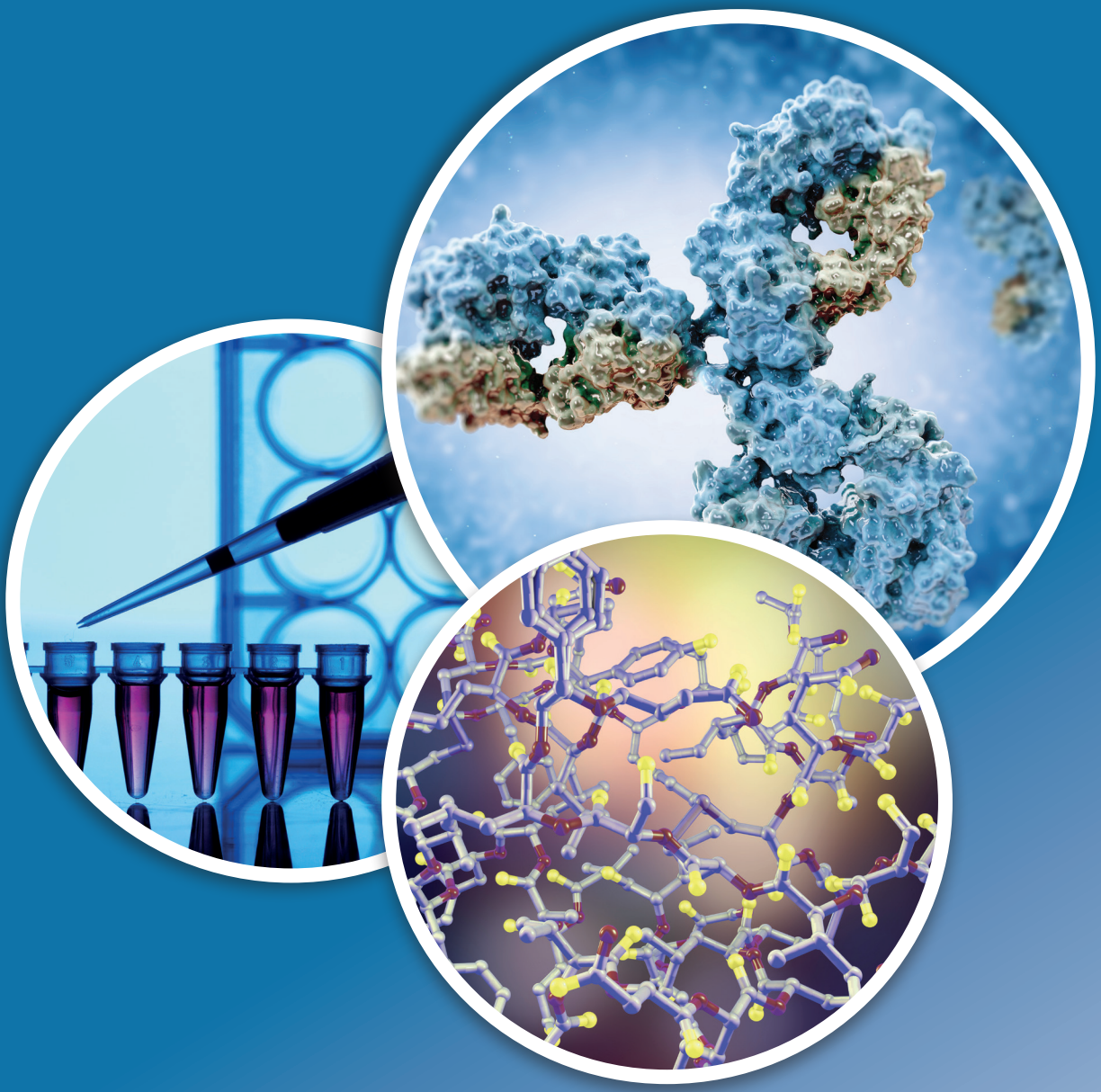
BIOZOL

FIT FOR SCIENCE

BRINGING QUALITY & EFFICIENCY TO RESEARCH



CANCER RESEARCH



www.biozol.de

BIOZOL

FIT FOR SCIENCE

Your Partner for Cancer Research

Biozol Diagnostica Vertrieb GmbH are proud to have been providing products and services within the life science arena since 1989. We always aspire to give our customers the fastest response times and high standards of customer service.

BIOZOL has the tools available to support your cancer research. For detection of cancer markers, tumor suppressors and oncology related proteins see our extensive range of ELISA kits and primary antibodies against targets such as BRCA1, HER2, CA125 and PTEN. In addition to human cancerous tissues, serums and cell lines; our positive controls for cancer studies include oncology related recombinant proteins, a broad selection of human tumor cell lysates from different tissues for applications such as western blotting and ELISA, and human tumor sections for use in immunohistochemistry.

Founded in 2004, and based in Vancouver, Canada, Applied Biological Materials Inc. (abm) develops and commercialises novel research tools to catalyse scientific discovery. With an all-encompassing continuum of products spanning everything from CRISPR gene editing tools and viral vectors/viruses to the world's largest collection of unique cell lines and the most advanced PCR and Next Generation Sequencing technologies, abm strives to meet the pressing needs of the drug discovery and biopharmaceutical markets.

Offering a wide range of high-quality products designed to streamline solutions and minimise costs, abm includes within an extensive product portfolio:

- A comprehensive vector and virus library
- Cell biology products including immortalised primary cells, stem cells, transfection reagents and siRNA
- PCR, RT-PCR and qPCR products
- CRISPR gene-editing tools
- Protein expression and analysis tools including antibodies, recombinant proteins, cell lysates, and products for Western blot, ELISA and IHC
- Next Generation Sequencing technologies
- Products for DNA and RNA applications, including restriction enzymes, cloning kits, purification kits and DNA markers

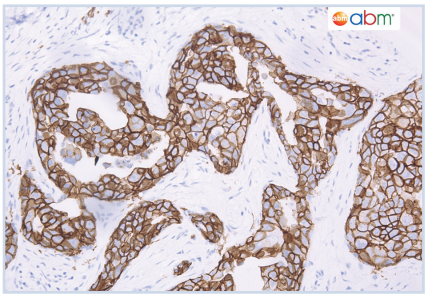
These are complemented by specialised services such as viral packaging, DNA and cloning services, and various cellular and proteomics service offerings.

SensiStain™ IHC antibodies for cancer research

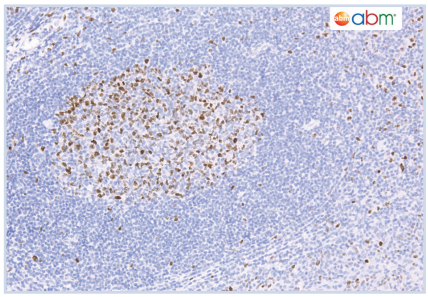
With high sensitivity and specificity for IHC applications, abm's SensiStain™ antibodies have been validated on human FFPE sections through robust in-house quality control. Suitable for single tissue IHC staining or for tissue microarray (TMA) IHC, SensiStain™ antibodies can be used in both manual and automated staining protocols to achieve superior IHC results.

Many antibodies within abm's SensiStain™ range target key proteins implicated in cancer. These include antibodies to Her2, Ki-67 and PAX8, as well as products targeting TIM3, MSH2 and p16INK4A.

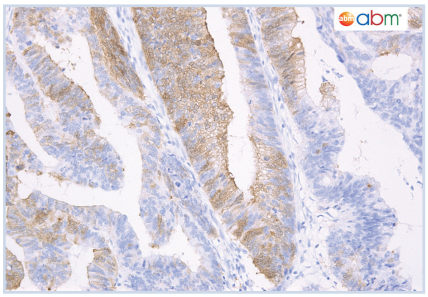
SensiStain™ antibodies deliver superior IHC staining in a wide variety of tissue types



HY000142 SensiStain™ Anti-Her2/Neu Antibody.
Stained on Human Breast Tissue



HY000157 SensiStain™ Anti-Ki-67 Antibody.
Stained on Human Tonsil Tissue



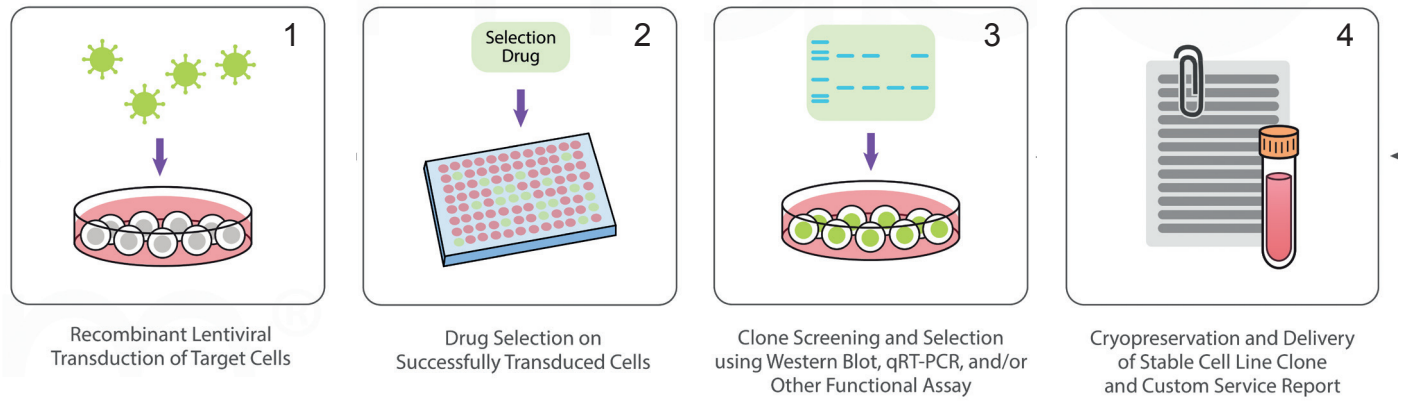
HY000400 SensiStain™ Anti-p16^{INK4A} Antibody - Concentrate.
Stained on Human Colon Tissue

Stable cell lines for oncology drug discovery

Leveraging proven success in stable cell line generation and validation, abm has developed a unique library collection of over 300 stable cell lines targeting a wide range of molecules in major signalling pathways. These include:

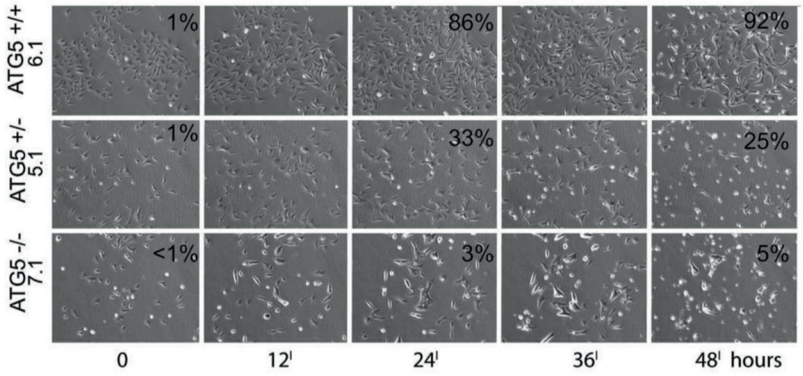
- G protein coupled receptors (GPCR)
- Kinases
- Nuclear hormone receptors (NHR)
- Ion channels
- Immune checkpoint proteins
- Enzymes
- Reporters
- Catalytic receptors
- Transporters

Many of the stable cell lines within abm's portfolio have utility within cancer research. Typical applications include the study of loss- or gain-of-function mutations *in vivo*, identification of new pharmaceutical targets; quantification and tracking of the expression levels and localisation of target genes; and various validation studies. The company also offers a custom service to generate stable cell lines for those research targets not currently covered.



abm's stable cell line generation service

Provided with detailed information regarding source, growth properties, morphology, recommended seeding density, expressed cellular markers, and more, abm's stable cell lines are also supplied with comprehensive testing data.



Microscopy images demonstrating the growth of various Atg5 stable cell lines.

ATLAS ANTIBODIES

Primary Antibodies from Atlas Antibodies

Atlas Antibodies offers over 21,000 highly characterized primary antibodies targeting all human proteins. The antigens are designed by selecting the target sequence with the lowest identity to all other human proteins. The resulting antibody is then affinity-purified and manufactured using a standardized production process to ensure high specificity and reproducibility.

Atlas Antibodies in Cancer Research

Using antibodies to explore the human genome and validating them for both normal and cancerous tissues, is a great resource for biomarker discovery. At Atlas Antibodies we have a strong focus on cancer. Our product catalog features a wide range of antibodies for cancer research such as colorectal cancer, breast cancer, prostate cancer, melanoma and much more. We offer several defined oncology biomarkers as well as a wide portfolio of antibodies for cell proliferation/differentiation, signal transduction, apoptosis, DNA damage/repair, cell adhesion, proto-oncogenes, tumor suppressors and more. We are proud to offer a wide selection of PrecisA Monoclonals and Triple A Polyclonals for cancer research.

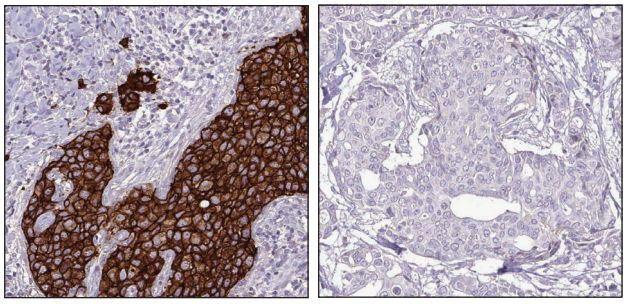


Figure 1
Immunohistochemical staining of human breast cancer tissue using Anti-HER2 antibody (AMAb90627), showing strong membranous positivity in HER2-positive breast cancer (left) and no positivity in HER2-negative breast cancer (right), as expected.

Triple A Polyclonals are rabbit polyclonal antibodies developed within the Human Protein Atlas project. We offer 21,000 Triple A Polyclonals, each supplied with more than 500 annotated IHC images. The antibodies have been used for staining both normal human tissue samples and human cancer samples.

PrecisA Monoclonals are mouse monoclonal antibodies developed against carefully selected targets. We offer several oncology biomarkers as well as a wide range of antibodies for different cancer-related pathways.

Our antibodies are always supplemented with the exact immunogen sequence. The PrecisA Monoclonal antibodies are epitope mapped for your convenience.

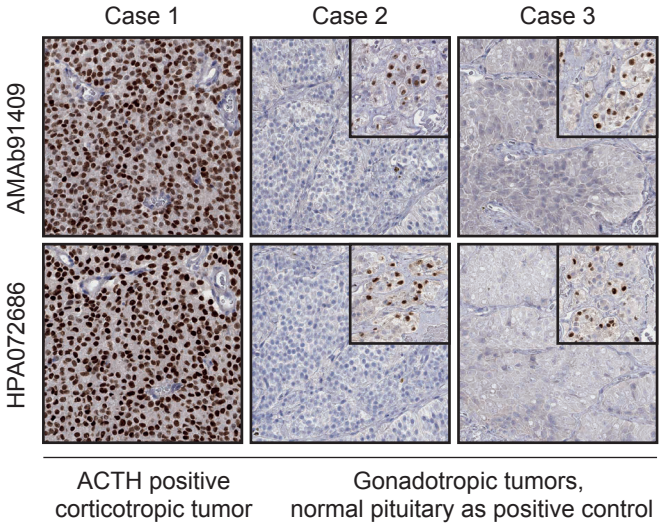


Figure 2
Immunohistochemical staining of ACTH-positive corticotropic tumor (Case 1) and gonadotropic tumors (Case 2 and 3) using Anti-T-Pit monoclonal (AMAb91409, upper panels) and polyclonal (HPA072686, lower panels) antibodies. Note strong nuclear positivity in the majority of cells in corticotropic tumor and absence of immunoreactivity in gonadotropic tumors. Insets in Case 2 and 3 images show nuclear positivity in normal adenohypophysis. Identical staining pattern is observed with both monoclonal and polyclonal antibody.

Prognostic Biomarkers

Cancer is a major health problem throughout the world, and due to a world population with an increased life-expectancy, there is no reason to expect a decline in cancer incidence in the near future. Prognostic biomarkers provide information about the patients' overall cancer outcome promising to improve estimation of patient prognosis, leading to a more individualized treatment.

The Pathology Atlas contains mRNA and protein expression data from multiple forms of human cancer. Correlation analysis based on mRNA expression levels of human genes in cancer tissue and the clinical outcome for almost 8,000 cancer patients is presented in a gene-centric manner and includes more than 18,000 Kaplan-Meier survival plots.

Prognostic biomarkers play an increasingly important role in cancer detection, treatment and patient follow-up.

Together with our research partners from the Human Protein Atlas project we are in a unique position to perform antibody-based biomarker discovery.

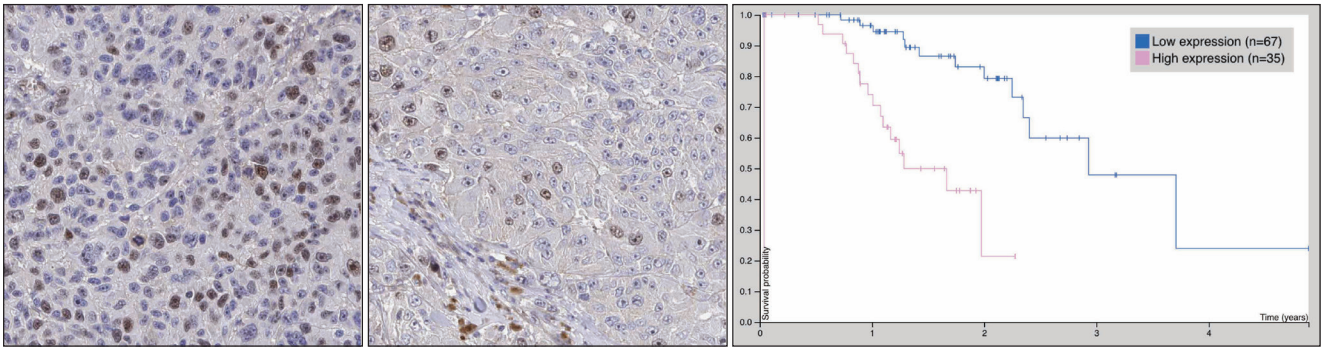


Figure 3
Immunohistochemical staining for Anti-TIMELESS (HPA060655) antibody of human melanoma. Left and middle images show high and low immunoreactivity, respectively. The Kaplan-Meier plot on the right, summarize results from analysis of correlation between mRNA expression level and patient survival for Anti-TIMELESS (HPA060655). Shorter patient survival is associated with high expression of TIMELESS, as expected.

The Epithelial to Mesenchymal Transition (EMT) Marker Panel

To understand the molecular mechanisms of cancer metastasis, it is indispensable to identify the genes whose alterations accumulate/decline during cancer progression as well as the genes whose expression is responsible for the acquisition of metastatic potential in cancer cells.

Atlas Antibodies offers a panel of monoclonal antibodies against the key EMT markers for cell junctions, cytoskeletal changes, transcription regulation and migration-motility. Our EMT panel includes monoclonal antibodies with different isotypes, which allows for co-localization studies using immunofluorescence with isotype specific secondary antibodies.

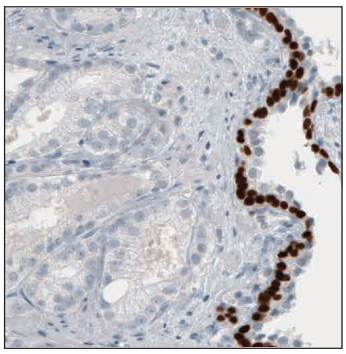


Figure 4
Immunohistochemical staining for the EMT marker Anti-TP63 Antibody (AMAb91224) of human prostate cancer shows absence of nuclear immunoreactivity in tumor cells, while it is present in the adjacent normal basal epithelial cells.

The Human Protein Atlas

The Human Protein Atlas (HPA) project has created a complete map of protein expression in all major organs and tissues of the human body (*proteinatlas.org/tissue*). At a subcellular level, protein expression is presented using confocal microscopy in human cell lines (*proteinatlas.org/cell*). Data from cancer tissues is presented in an interactive open-access database to allow genome-wide exploration of the impact of individual proteins on clinical outcomes (*www.proteinatlas.org/pathology*). To achieve these results, highly specific antibodies have been developed to all protein coding human genes.

The antibodies developed within the Human Protein Atlas project are made available to the scientific community by Atlas Antibodies as Triple A Polyclonals.

Aviva Systems Biology:

An Original Manufacturer

Aviva Systems Biology Corporation is a growing proteomic biotech company with a specialization in antibodies, recombinant proteins, and ELISA Kits. Unlike other companies, we design, manufacture, and validate our own products.

Our head office is in San Diego, CA. We also have an office in Beijing, China. Both locations work together to provide scientific support to researchers globally.

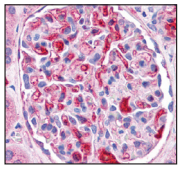
All Aviva products have been through vigorous validations. We guarantee their use on verified applications as indicated on our website and publications.

AVIVA SYSTEMS BIOLOGY

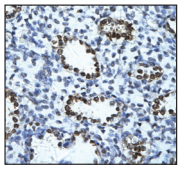
Products and Services:

- 130,000+ Antibodies
- 18,000+ Proteins
- 17,000+ ELISA Kits
- Custom Services
- Accessory Reagents

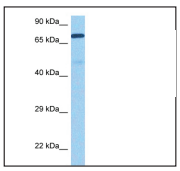
AVIVA'S TOP ANTIBODIES AND ELISA KITS FOR CANCER RESEARCH



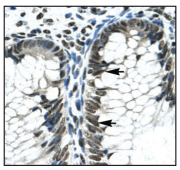
APOE Antibody (ARP54283_P050)
Reactivity: Human
Application: WB, IHC
Sample Type: Human Kidney



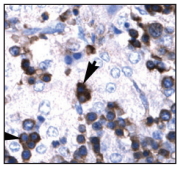
ENO1 Antibody (ARP34376_T100)
Reactivity: Human, Rat
Application: WB, IHC
Sample Type: Human Lung Tissue



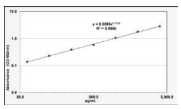
MMP9 Antibody (ARP33090_T100)
Reactivity: Human
Application: WB, IHC
Sample Type: Ovary Tumor Lysate



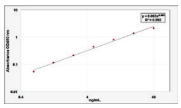
GLI2 Antibody (ARP31885_T100)
Reactivity: Human, Mouse
Application: WB, IHC
Sample Type: Human Intestine



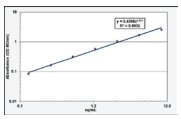
FOXP3 Antibody (ARP32743_T100)
Reactivity: Human, Mouse
Application: WB, IHC
Sample Type: Human Liver



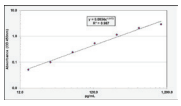
APOE ELISA Kit (Human) (OKCD06700)
Range: 4.7 - 300 ng/mL
Sensitivity: < 1.9 ng/mL



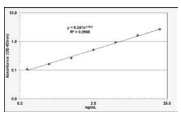
ENO1 ELISA Kit (Rat) (OKCA02612)
Range: 0.625 - 40 ng/mL
Sensitivity: < 0.156 ng/mL



MMP9 ELISA Kit (Human) (OKEH00521)
Range: 0.15 - 10 ng/mL
Sensitivity: < 0.056 ng/mL



GLI2 ELISA Kit (Human) (OKEH03512)
Range: 0.312 - 20 ng/mL
Sensitivity: < 0.156 ng/mL

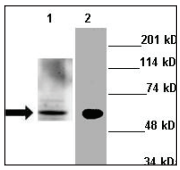


FOXP3 ELISA Kit (Human) (OKEH01344)
Range: 0.313 - 20 ng/mL
Sensitivity: < 0.23 ng/mL

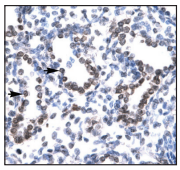
AVIVA'S CANCER ANTIBODIES

Cancer is the second leading cause of death worldwide and therefore researchers are in pursuit developing new methods, tools and reagents to detect and diagnose the disease for successful treatment. Aviva Systems Biology wants to help researchers in this process and have developed many antibodies that can detect proteins involved in various processes such as cell cycle, transcription factors, signaling molecules, apoptosis, angiogenesis and DNA damage and repair.

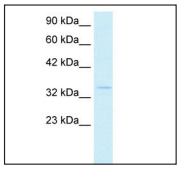
FEATURED PRODUCTS



GATA2 Antibody (ARP31855_T100)
N-terminal region using mouse liver and N2a cell lysate in Western Blot

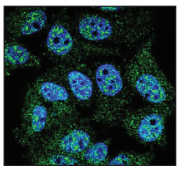


HEY1 Antibody (ARP32512_T100)
C-terminal region using human lung tissue lysate in immunohistochemistry

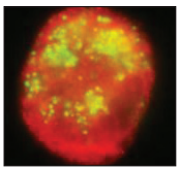


HEY1 Antibody (ARP32512_T100)
C-terminal region using human lung tissue lysate in Western Blot

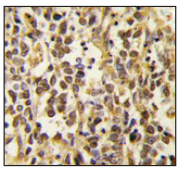
ALL CANCER GENES



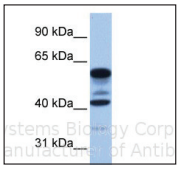
ABL1 Antibody (Phospho - Y245) (OAAB15990)
Application: WB, IHC, IF
Reactivity: Human, Mouse



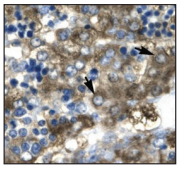
ACSL3 Antibody (ARP46453_P050)
Protein Name: Long-chain-fatty-acid-CoA ligase 3
Application: WB, IHC
Reactivity: Human, Mouse, Bovine,



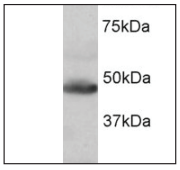
DNMT3A Antibody (OAAB00357)
Protein Name: DNA (cytosine-5)-methyltransferase 3A
Application: WB, IHC
Reactivity: Human



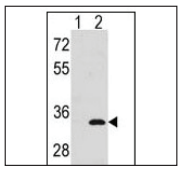
FAM46C Antibody (ARP53723_P050)
Protein Name: Protein FAM46C
Application: WB
Reactivity: Human



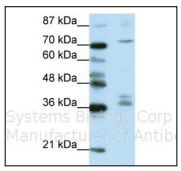
GATA2 Antibody (ARP31855_T100)
Protein Name: Endothelial transcription factor GATA-2
Application: WB, IHC
Reactivity: Human



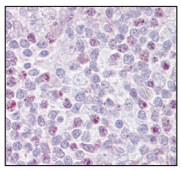
IDH2 Antibody (OAEB00968)
Protein Name:Isocitrate dehydrogenase [NADP], mitochondrial
Application: WB
Reactivity: Human



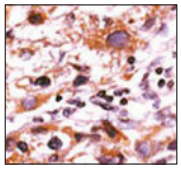
CDK1 Antibody (OAAB01260)
Protein Name:Cyclin-dependent kinase 1
Application: WB, FC
Reactivity: Human



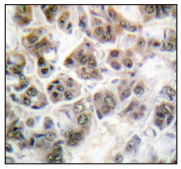
AKAP9 Antibody (ARP38677_T100)
Protein Name: A kinase (PRKA) anchor protein (Yotiao) 9, isoform CRA_c EMBL EAW76862.1
Application: WB
Reactiviy: Human



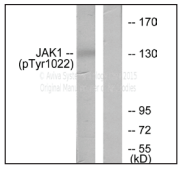
EBF1 Antibody (ARP39578_P050)
Protein Name:Transcription factor COE1
Application: WB, IHC
Reactivity: Human



FGFR Antibody (Phospho Y766) (OAAB16043)
Protein Name:Fibroblast growth factor receptor1
Application: WB, IHC
Reactivity: Human; Mouse



H3F3A Antibody (OAAF00945)
Protein Name:Histone H3.3
Applicatioin: IHC, IF
Reactivity: Human, Mouse, Rat



JAK1 Antibody (Phospho - Tyr1022) (OAAF00342)
Protein Name:Tyrosine-protein kinase JAK1
Applicaton: WB, IHC
Reactivity: Human, Mouse

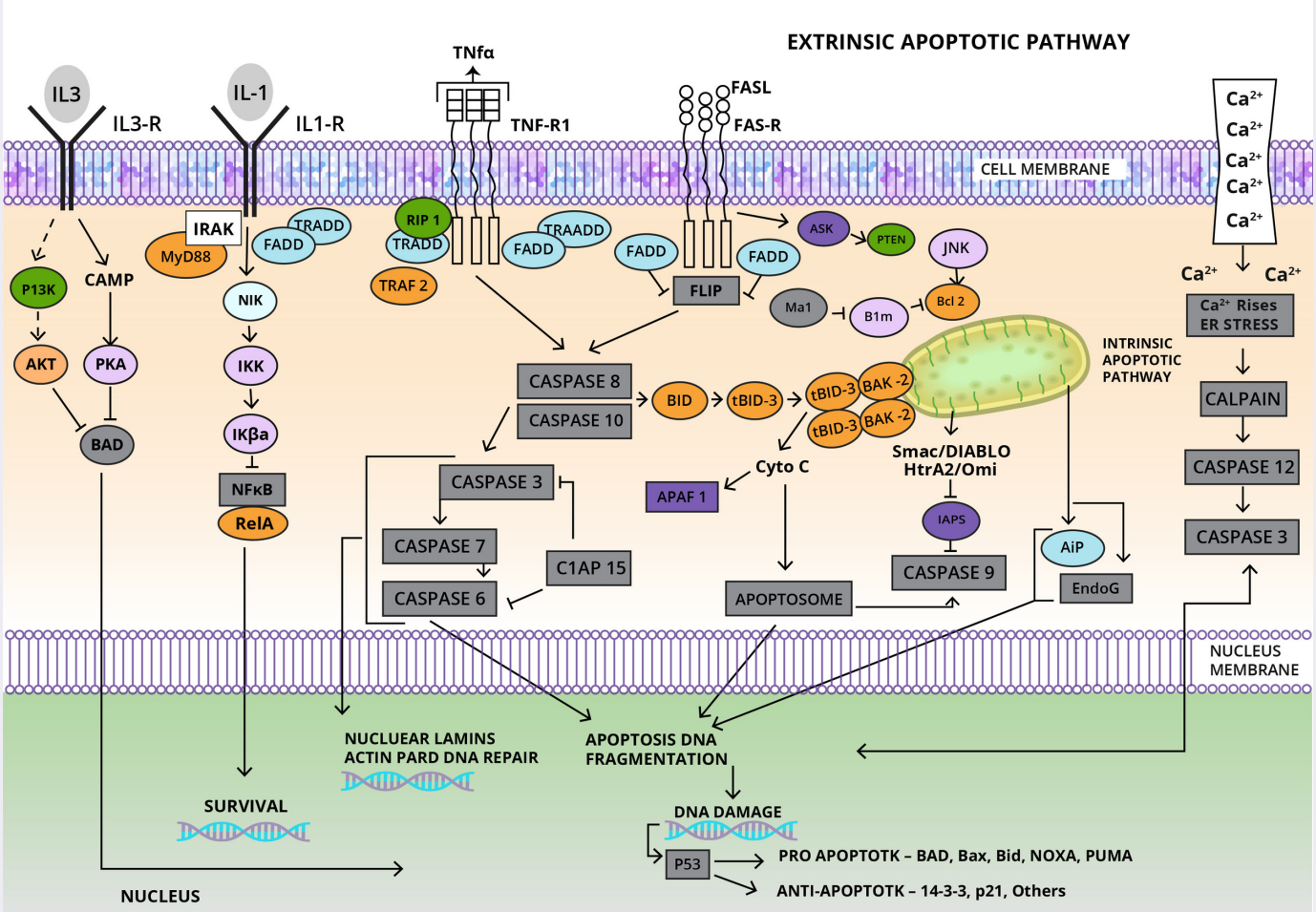
biorbyt

Explore. Bioreagents.

Cancer Pathways – Apoptosis Signaling

Apoptosis is the process of programmed cell death characterized by distinct morphological characteristics and energy-dependent biochemical mechanisms. Apoptosis is considered a vital component of processes including normal cell turnover, proper development and functioning of the immune system, hormone-dependent atrophy, embryonic development and chemical-induced cell death.

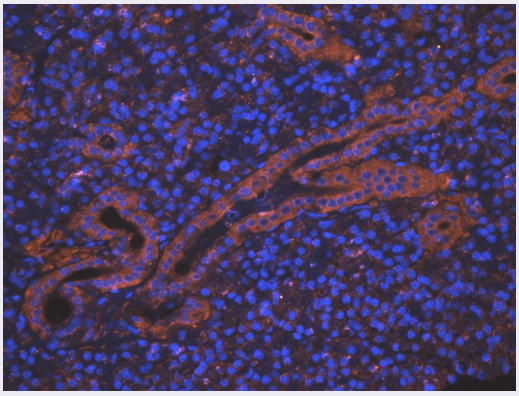
Apoptotic cells undergo morphological changes involving extensive plasma membrane blebbing followed by karyorrhexis. Apoptotic bodies are formed by separation of cell fragments during a process called “budding.” Apoptotic bodies consist of cytoplasm with tightly packed organelles with or without a nuclear fragment. The organelle integrity remains enclosed within an intact plasma membrane. These bodies are subsequently phagocytosed by macrophages, parenchymal cells, or neoplastic cells and degraded within phagolysosomes. There are three main types of biochemical changes observed in apoptosis: 1) Activation of caspases 2) Breakdown of DNA and protein and 3) Membrane changes and recognition by phagocytic cells.



An Extensive Range of Research Products

- Customer product reviews
- Over 200,000 to choose from
- Antibodies, proteins, peptides, ELISA kits, small molecules
- Validated for use in a variety of techniques
- Expert technical support available where you are

Biorbyt offers a rich resource of research products which cover many signaling pathways. We only include antibodies in our catalog which have been validated first, some in a variety of different applications. Validation data for all products, customer reviews and recent citations can be viewed before you decide to purchase. All our products are covered by our quality guarantee and technical support.



IF image of mouse lymph node tissue using anti-BCL2 (2.5 ug/ml) - orb10173

Apoptosis Pathway Products – A Very Small Selection!

Catalogue Code	Description	Product Type
orb10173	BCL2	Antibody
orb183257	DRAK2	Antibody
orb385613	CD95	Antibody
orb10242	Caspase 9	Antibody
orb80955	Human BCL2	Protein
orb154650	Cisplatin	Small Molecule
orb11024	ASK1/MAPKKK5	Antibody
orb419426	Z-VAD-FMK	Small Molecule
orb50135	Human Survivin	ELISA Kit
orb223930	Human TIGAR-TAT	Protein

Apoptosis Pathway References

- Ouyang, L. et al. Programmed cell death pathways in cancer: a review of apoptosis, autophagy and programmed necrosis. Cell Proliferation. (2012) 45, 487-498 doi: 10.1111/j.1365-2184.2012.00845.x
- Ichim, G. and Tait, S. W. G. A fate worse than death: apoptosis as an oncogenic process. Nature Reviews Cancer. (2016) 16 539-548 doi:10.1038/nrc.2016.58

Bioss ANTIBODIES

Inspiring Scientific Discovery

Primary Antibodies | Secondary Antibodies | Isotype Controls

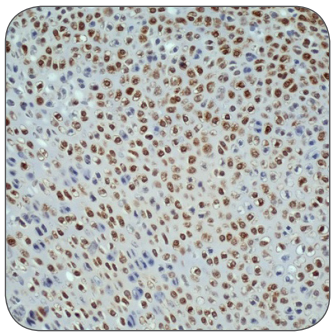
BIOSS ANTIBODIES FOR CANCER RESEARCH

We are a leading antibody developer and manufacturer with state of the art technologies. We have developed over 11,000 primary antibodies and more than 130,000 derived products including fluorochrome-conjugated antibodies. In addition to reliable loading control and tag antibodies, our catalog includes over 1000 specific antibodies recognizing proteins with phosphorylation, acetylation, or methylation modifications. Our company promises fast delivery with strong, top quality scientific support. Bioss, Inc. is located in the Greater Boston Area, the center of the world's largest and fastest growing biotech community.

FEATURED PRODUCTS

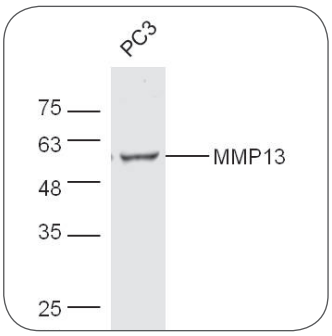
TARGET		APPLICATION	SPECIES	CATALOG
ABCD1/CCL22	PubMed	IHC-P	Ms, Rt	bs-1761R
AIF	PubMed	WB, IHC-P, IF(IHC-P)	Hu, Ms, Rt, Pg	bs-0037R
AKT1/3	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-0115R
AKT1+2+3Tyr315+316+312	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-5193R
Arginase 1	PubMed	IHC-P, FCM	Hu, Ms, Rt	bs-8585R
Arginase 2	PubMed	IHC-P	Hu, Ms, Rt	bs-11397R
ATF4/CREB-2	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-1531R
Bax	PubMed	WB, IHC-P, ICC	Hu, Ms, Rt, Pg	bs-0127R
Bcl-2	PubMed	WB, IHC-P, FCM	Hu, Ms, Rt, Pg	bs-4563R
Beclin 1	PubMed	WB, IHC-P, IHC-F, ICC	Hu, Ms, Rt	bs-1353R
Beta catenin	PubMed	WB, IHC-P, ICC, IF(IHC-P)	Hu, Ms, Rt	bs-1165R
BRCA2		WB, IHC-P	Hu, Ms, Rt	bs-1210R
c-Kit	PubMed	WB, IHC-P, ICC	Hu, Ms, Rt	bs-10005R
c-Ros		IHC-P	Hu, Ms, Rt	bs-2504R
CA125	PubMed	ICC	Hu	bs-0091R
Caspase-3	PubMed	WB, IHC-P, ICC, FCM	Hu, Ms, Rt, Gt	bs-0081R
Cathepsin D/CTSD	PubMed	WB, IHC-P, ICC, E	Hu, Ms, Rt	bs-1615R
CD105	PubMed	WB, IHC-P, ICC, FCM	Hu, Ms, Rt	bs-4609R
CD134		IHC-P	Hu, Ms, Rt	bs-2685R
CD137	PubMed	IHC-P, ICC	Hu, Ms, Rt	bs-2449R
CD138/Syndecan 1	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-1309R
CD14	PubMed	WB, IHC-P, FCM	Hu, Ms, Rt	bs-1192R
CD161c/NK1.1	PubMed	WB	Ms, Rt	bs-4682R
CD19		WB, IHC-P, IF(IHC-P)	Hu, Ms, Rt	bs-4755R
CD28	PubMed	IHC-P, IHC-F, IF(IHC-P), FCM	Hu, Ms, Rt	bs-1297R
CD31	PubMed	WB, IHC-P, IHC-F, ICC, FCM	Hu, Ms, Rt, Dg	bs-0468R
CD34	PubMed	WB, IHC-P, ICC, FCM	Hu, Ms, Rt	bs-0646R
CD4	PubMed	WB, IHC-P, IHC-F, FCM	Hu, Ms, Rt	bs-0647R
CD4	PubMed	IHC-P, IF(IHC-P)	Ms, Rt	bs-0766R
CD80	PubMed	IHC-P	Ms, Rt	bs-2211R
CD86	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-1035R
CTGF	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-0743R
CTLA4	PubMed	WB, IHC-F	Hu, Ms, Rt	bs-10006R

Ki-67 Antibody | bs-2130R



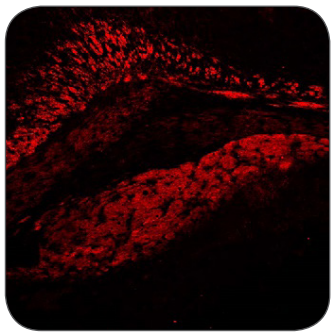
IHC-P | Mouse bone

MMP13 | bs-0575R



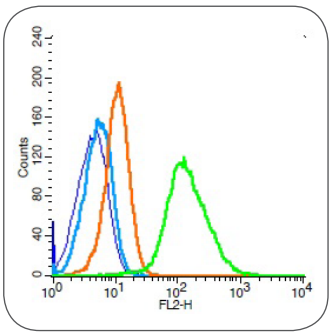
WB | Human PC3 cells

IL-1 beta | bs-0812R

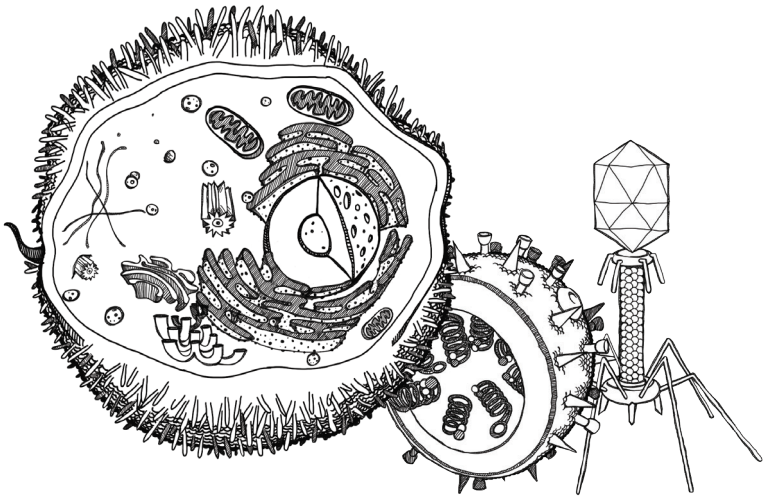


IF(IHC-P) | Mouse brain

IL-6R | bs-1459R



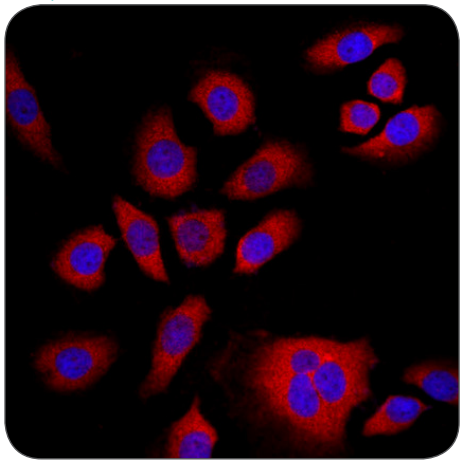
FCM | Human Raji cells



TARGET		APPLICATION	SPECIES	CATALOG
CX3CR1	PubMed	WB, FCM, IHC-P	Hu, Ms, Rt	bs-1728R
Cytochrome C	PubMed	WB, IHC-P, ICC	Hu, Ms, Rt	bs-0013R
DKK1	PubMed	WB, IHC-P	Hu, Ms, Rt, Dg	bs-2162R
E cadherin	PubMed	WB, IHC-P, ICC, FCM	Hu, Ms, Rt	bs-10009R
EGFRv3	PubMed	WB, IHC-P, IHC-F	Hu	bs-2558R
GADD45	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-1360R
Galectin 3	PubMed	IHC-P, FCM	Hu, Ms, Pg	bs-0721R
Galectin 9		IHC-P	Ms, Rt	bs-0604R
GFAP	PubMed	WB, IHC-P, IHC-F, ICC, FCM	Hu, Ms, Rt	bs-0199R
GLUT4	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-0384R
HIF-1 Alpha	PubMed	WB, IHC-P, ICC	Hu, Ms, Rt	bs-0737R
Histone H3	PubMed	IHC-P, IF(IHC-P), FCM	Hu, Ms, Rt, Pg	bs-0349R
ICOS/CD278		IHC-P	Hu, Ms, Rt	bs-2583R
IDO	PubMed	ICC, IF(IHC-P)	Hu, Ms, Rt	bs-15493R
IFN gamma	PubMed	WB, IHC-P, IHC-F	Ms, Rt	bs-0480R
IGF 1	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-0014R
IL-1 Beta	PubMed	WB, IHC-P, IF(IHC-P)	Hu, Ms, Rt, Dg, Rb	bs-0812R
IL-1 Beta	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-6319R
IL-10	PubMed	WB, IHC-P, E	Hu, Ms, Rt, Ch	bs-0698R
IL-13	PubMed	IHC-P, FCM	Ms, Rt	bs-0560R
IL-5		IHC-P	Hu, Ms, Rt	bs-1318R
IL-6	PubMed	WB, IHC-P	Ms, Rt	bs-0782R
IL-6	PubMed	IHC-P	Ms, Rt	bs-0379R
IL-6	PubMed	IHC-P	Hu	bs-0781R
IL-6	PubMed	WB, IHC-P	Hu	bs-4587R
IL-6R alpha	PubMed	IHC-P	Ms, Rt	bs-1805R
IL-6R Beta/CD130/gp130	PubMed	IHC-P, FCM	Hu, Ms, Rt	bs-1459R
IRF3	PubMed	IHC-P	Hu, Ms, Rt	bs-2993R
JAK2	PubMed	WB, IHC-P, FCM	Hu, Ms, Rt	bs-0908R
Ki-67 proliferation Marker	PubMed	WB, IHC-P, ICC	Hu, Ms, Rt	bs-2130R
LAMP-1	PubMed	WB, IHC-P, FCM	Hu, Ms, Rt	bs-1970R
Met (c-Met)	PubMed	WB, IHC-P, IF(IHC-P), FCM	Hu, Ms, Rt	bs-0668R
MHC class 1		IHC-P	Hu	bs-10251R
MHC Class 2		WB, IHC-P	Hu, Ms, Rt	bs-8481R
MMP-1	PubMed	IHC-P	Ms, Rt	bs-0463R
MMP-13	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-0575R
MMP-3	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-0413R
MMP19		WB	Hu, Ms, Rt	bs-10058R

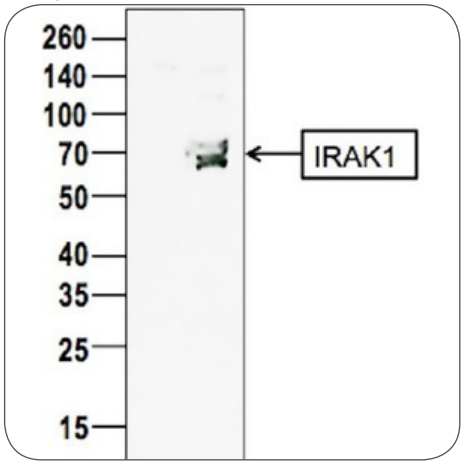
TARGET		APPLICATION	SPECIES	CATALOG
MMP2	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-0412R
MMP9	PubMed	WB, IHC-P, FCM	Hu, Ms, Rt	bs-0397R
N-cadherin	PubMed	WB, IHC-P, IF(IHC-P)	Hu, Ms, Rt	bs-1172R
NFKB p65	PubMed	WB, IHC-P, FCM	Hu, Ms, Rt, Pg	bs-0465R
NFKB p65 Ser536	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-0982R
Osteopontin	PubMed	WB, IHC-P, ICC	Ms, Rt	bs-0026R
P21	PubMed	WB, IHC-P, ICC	Hu, Ms, Rt	bs-10129R
p63	PubMed	IHC-P	Hu, Ms, Rt	bs-0723R
p75 NGF Receptor	PubMed	WB, IHC-P, ICC, IF(IHC-P), FCM	Hu, Ms, Rt	bs-0161R
PALB2		WB, IHC-P, FCM	Hu, Ms, Rt	bs-0588R
pan Cytokeratin	PubMed	IHC-P, IHC-F, ICC	Hu, Ms, Rt, Pg	bs-1712R
PD-1/CD279	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-1867R
PDL2/B7-DC		IHC-P	Hu, Ms, Rt	bs-1868R
ROCK1 Thr455 + Ser456	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-4630R
S100-A9		IHC-P	Hu, Ms, Rt	bs-2697R
SOX2	PubMed	WB, FCM, IHC-P, ICC	Hu, Ms, Rt	bs-0523R
STAT3 Tyr705	PubMed	WB, IHC-P, FCM	Hu, Ms, Rt, Pg	bs-1658R
Substance P	PubMed	WB, IHC-P, IHC-F	Hu, Ms, Rt	bs-0065R
TERT	PubMed	ICC	Hu, Ms, Rt	bs-1411R
TGF beta 1	PubMed	WB, IHC-P, E	Hu, Ms, Rt	bs-0086R
TGF beta 2 Propeptide	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-0100R
TGF beta Receptor 1	PubMed	WB, IHC-P, FCM	Hu, Ms, Rt	bs-0638R
Thy1	PubMed	FCM, IHC-P, IHC-F, ICC, FCM	Hu, Ms, Rt	bs-0778R
TIMP-1NT	PubMed	WB, IHC-P, ICC	Hu, Ms, Rt	bs-0415R
TLR2	PubMed	WB, IHC-P, ICC, FCM	Hu, Ms, Rt	bs-1019R
TLR4	PubMed	WB, FCM, IHC-P, ICC	Hu, Ms, Rt	bs-1021R
TNF alpha	PubMed	WB, IHC-P, IHC-F	Hu, Ms, Rt	bs-2081R
TNFR1	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-2941R
TNFRSF5		IF(IHC-P)	Hu, Ms, Rt	bs-2929R
TNFSF9/CD137L		IHC-P	Hu	bs-3851R
VE Cadherin		WB, FCM, IF(IHC-P)	Ms, Rt	bs-0878R
VEGF	PubMed	WB, IHC-P	Hu, Ms, Rt, Sh	bs-1665R
VEGF	PubMed	WB, IHC-P, ICC, FCM	Hu	bs-0279R
VEGFR1	PubMed	WB, IHC-P, ICC	Hu, Ms, Rt	bs-0170R
Vimentin	PubMed	WB, IHC-P, ICC	Hu, Ms, Rt, Pg	bs-0756R
Wnt3a	PubMed	WB, IHC-P	Hu, Ms, Rt	bs-1700R
WNT5A	PubMed	WB, IHC-P	Hu, Ms, Rt, Dg	bs-1948R
XPC	PubMed	IHC-P, IF(IHC-P)	Hu, Ms, Rt	bs-6634R

NF-KB | bs-10037R



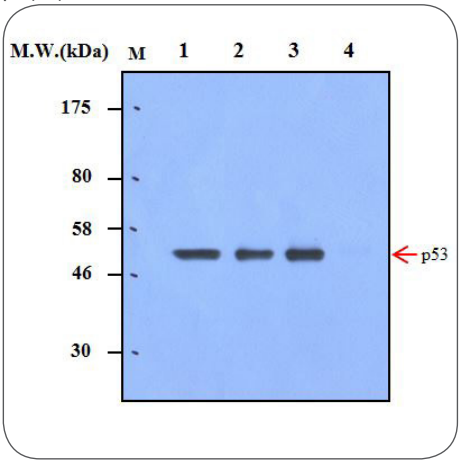
IF(ICC) | Human MCF-7 cells

IRAK1 | bs-6464R



WB | Human PC3 cells

p53 (2C1) | bsm-50362M



WB | Human 293T cells

WB - Western Blot | IHC-P - Immunohistochemistry Paraffin | IHC-F - Immunohistochemistry Frozen | ICC - Immunocytochemistry | IF - Immunofluorescence | ELISA - Enzyme Linked Immunosorbent Assay | FCM - Flow Cytometry

Bv - Bovine | Ch - Chicken | Dg - Dog | Gt - Goat | Hu - Human | Ms - Mouse | Pg - Pig | Rb - Rabbit | Rt - Rat | Sh - Sheep

BioVendor
Research
and Diagnostic Products

One of three major divisions of the BioVendor group of companies, BioVendor Research and Diagnostic Products specialises in the development of original immunoassay kits for the detection of novel hormone-like proteins and protein biomarkers. Complementing these with related antibodies and high-quality proteins, the company also maintains a strong focus on emerging areas of scientific interest such as microRNA biomarkers.

With a long tradition of scientific expertise, BioVendor is staffed by an engaged and enthusiastic team. Based within fully-equipped modern facilities, BioVendor Research and Diagnostic Products delivers a comprehensive portfolio covering research areas which include:

- Energy metabolism
- Obesity
- Type II diabetes mellitus and associated diseases
- Cardiovascular diseases
- Renal diseases
- Bone and cartilage
- Pulmonary diseases
- Cancer
- Sepsis
- Inflammation

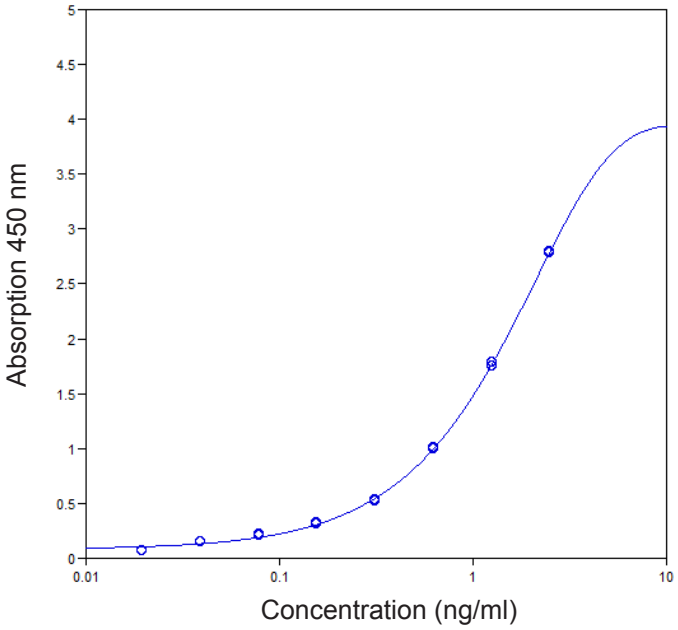
Innovative products for cancer research

BioVendor's extensive portfolio for cancer research includes ELISA kits, antibodies, proteins, miRNA immunoassays and planar arrays. Widely literature-cited, many of these products are unique to the company. Furthermore, several are recognised as being the first of their kind to reach the market, highlighting BioVendor's continuing drive to meet the diverse and evolving requirements of oncology researchers.

ELISA kits

Employing modern immunoassay formats, BioVendor's ELISA kits deliver high assay sensitivity, with an emphasis on superior analytical characteristics and user-friendly kit performance. Composed of the company's own antibodies and recombinant proteins to assure full control over quality, many of these products are CE IVD marked to meet current requirements for validation.

BioVendor's ELISA kits for cancer research encompass a broad spectrum of target molecules. In addition to well-studied proteins such as p53, HER-2 and various S100 proteins, the company also offers ELISA kits to detect lesser-known targets such as stanniocalcin, triiodothyronine and decorin.



Typical calibration curve for sHER-2 human ELISA (catalogue number RAF101R). All BioVendor ELISA kits are provided with a detailed protocol which includes background information and key references for the target antigen, instructions for specimen collection and storage, and comprehensive QC data.

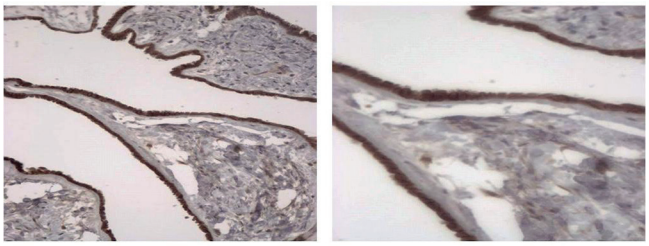
Technical data

- Sandwich ELISA format
- HRP-labelled antibody
- Suitable sample types: serum, plasma-EDTA, plasma-heparin, amniotic fluid, cell culture supernatant
- Sample requirements: 100 µl (1:20 pre-diluted)
- Calibration range: 0.16–10 ng/mL
- Limit of detection: 0.06 ng/mL
- Intra-assay CV: 1.9%
- Inter-assay CV: 5.8%
- Spiking recovery: 89%
- Dilution linearity: 95%

Antibodies

BioVendor manufactures both monoclonal and polyclonal antibodies to support cancer research. Monoclonals are prepared using hybridoma technology to fuse the spleen cells of immunised mice with mouse myeloma Sp2/0 cells, while polyclonals are predominantly generated in rabbit and sheep hosts. Subjected to rigorous in-house characterisation, and tested for ELISA, Western blotting and IHC applications, all BioVendor antibodies deliver high specificity for target antigens.

With a wide range of antibodies applicable to cancer research, BioVendor enables robust immunodetection of many important oncology targets. Affinity purified and supplied carrier-free and azide-free for ease-of-use in downstream applications, BioVendor's antibodies are lyophilized to ensure product stability.



IHC staining of Ep-CAM (MK-1) in formalin-fixed paraffin-embedded human fallopian tube using RD182024110-25. The antibody was used at 2 µg/ml, detection was with DAB. Left image = 20x magnification, right image = 40x magnification. Clear staining can be seen in the luminal epithelial lining.

Technical data

- Mouse monoclonal antibody, clone MK-1-25
- Isotype: IgG1
- Tested applications: IHC, Western blot, ELISA
- Source of antigen: E. coli
- Species reactivity: human, does not react with mouse, other species not yet tested
- Antibody content: 0.1 mg
- Formulation: lyophilized in 0.05M phosphate buffer, 0.1M NaCl, pH 7.2, azide-free
- QC testing: indirect ELISA to determine titre, SDS-PAGE to determine purity

GeneTex

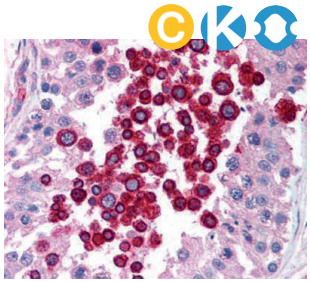
- Since 1997 USA -

GeneTex is committed to the most stringent standards of product performance and are dedicated to the goal of acceleraing your discoveries in cancer research. GeneTex has implemented knockout/knockdown-based validation in its antibody validation process to develop antibodies you can trust. The company has built a good reputation among researchers in the field and accumulated numerous citations.

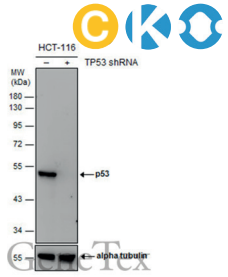
- Tested on cancer samples
- Validated for multiple applications
- Citations available
- Stringent validation

Citation Support | KO/KD Validation | Comparative Abs | Orthogonal Validation | Protein Overexpression

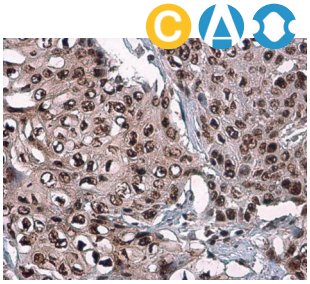
DNA Repair



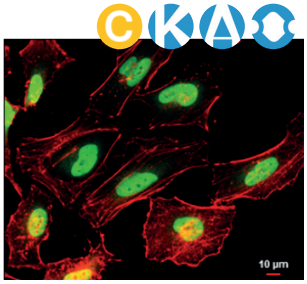
ATM antibody [2C1] (GTX70103)



p53 antibody [DO1] (GTX70214)

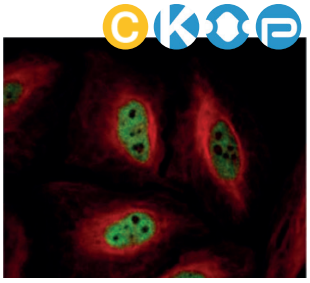


ATR (phospho Thr1989) antibody (GTX128145)

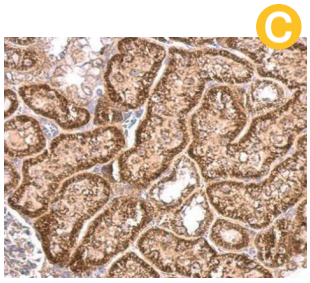


PARP antibody (GTX100573)

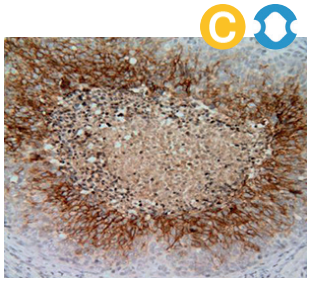
Hypoxia Response



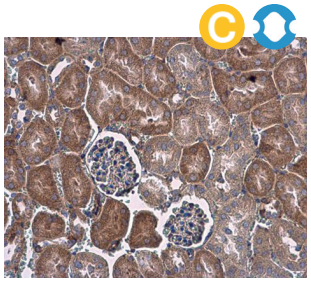
HIF1 alpha antibody (GTX127309)



Von Hippel Lindau antibody (GTX101087)

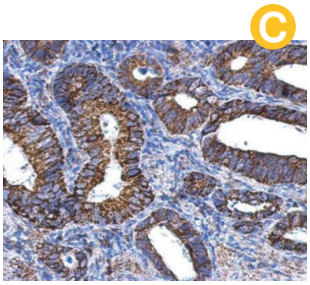


Carbonic Anhydrase IX antibody [GT12] (GTX70020)

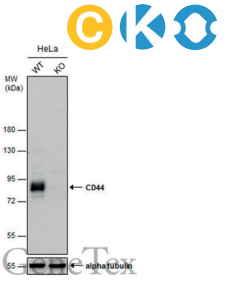


VEGF antibody (GTX102643)

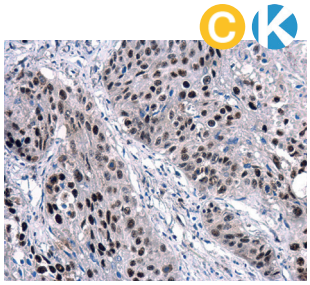
Cancer Stem Cell Marker



ALDH1A1 antibody (GTX123973)



CD44 antibody [GT462] (GTX628895)

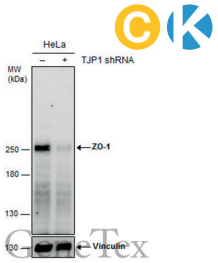


p63 antibody (GTX102425)

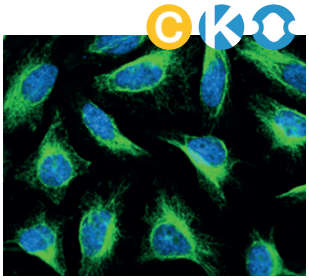
EpCAM antibody (GTX113091)

Epithelial-Mesenchymal Transition, EMT

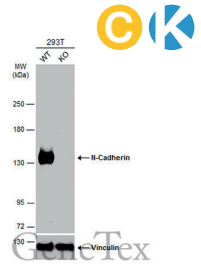
E-Cadherin antibody
(GTX100443)



ZO-1 antibody
(GTX108613)

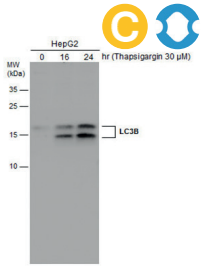


Vimentin antibody
(GTX100619)

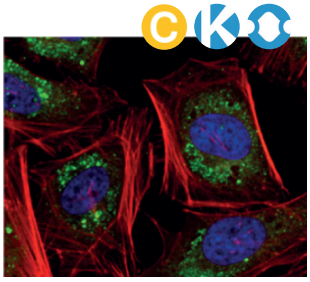


N-Cadherin antibody
(GTX127345)

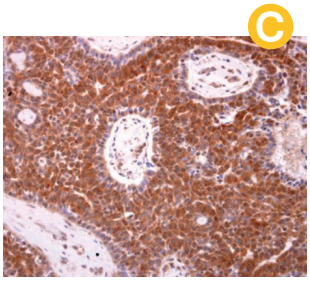
Cell Death



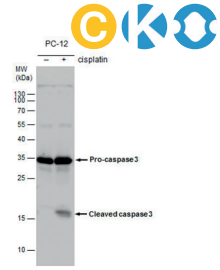
LC3B antibody
(GTX127375)



SQSTM1 / P62 antibody
[GT1478] (GTX629890)



Bax antibody
(GTX109683)

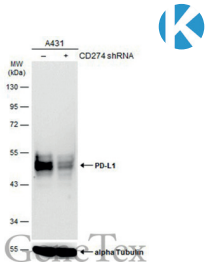


Caspase 3 antibody
(GTX110543)

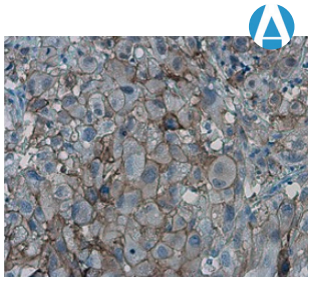
Cancer Immune Checkpoints

GTX104763, an Outstanding PD-L1 Antibody for Your Research!

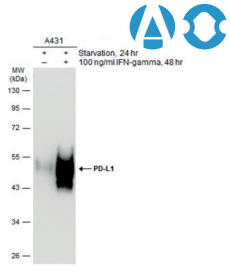
- Knockdown validated
- Citation support
- High performance and sensitivity



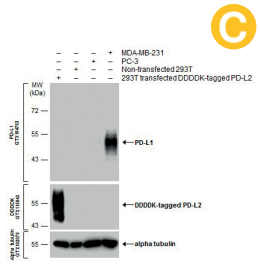
Knockdown



IHC



Western Blot



Target Specificity

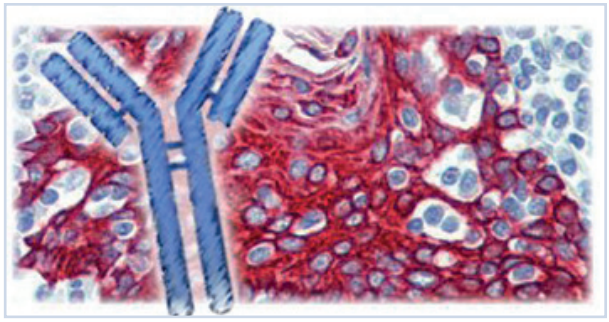
Quality Antibodies • Quality Results

LSBio
LifeSpan BioSciences, Inc.

LSBio (LifeSpan BioSciences) offers a catalog of 130,000 antibodies that have been tested for use in a variety of research applications, including immunohistochemistry, ELISA, Western blot, and flow cytometry.

Antibodies can often be used in multiple assays, but they do not perform equally well in all assays. This is particularly true for immunohistochemistry (IHC). Many antibodies that perform well in other assays do not work well in IHC against formalin-fixed paraffin-embedded tissues (FFPE-IHC).

LSBio's goal in immunohistochemistry validation is to identify for our customers those antibodies that perform well in FFPE-IHC. Out of the 130,000 antibodies in the LSBio catalog, 35,000 have been tested and received validation for use in IHC by LSBio or through collaborators or suppliers. Of these, 9,900 antibodies have been extensively tested in our Seattle laboratory and awarded IHC-plus™ brand validation. IHC-plus™ antibodies have been identified as the best reagents for use in FFPE-IHC.



LSBio's IHC-plus™ antibodies have been tested and identified as being optimal for use in immunohistochemistry (IHC) against formalin-fixed paraffin-embedded (FFPE) human tissues under LSBio's standardized IHC-plus™ immunohistochemistry protocol.

IHC-plus™ Antibody Validation

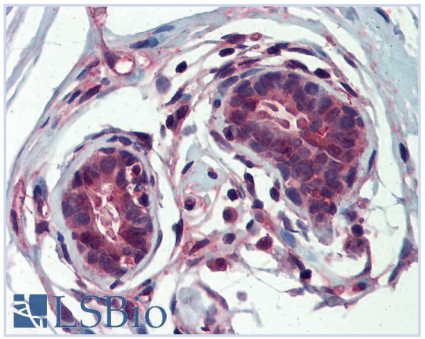
Each antibody is tested at multiple concentrations on more than 20 normal human tissue types, and when appropriate, multiple normal brain regions and/or cancer types. A LifeSpan pathologist, with extensive experience evaluating IHC, analyzes the localization profile of each antibody, identifying positive and negative cell types, signal strength, subcellular and extracellular staining, and staining artifacts. In order to be selected as an IHC-plus™ brand antibody, antibodies must have a close correlation to the published literature, be high affinity, display minimal staining artifacts, and have a high signal-to-noise ratio, such that its specific staining is considerably higher than its level of nonspecific background staining.

Every antibody is backed by our superior Technical Support staff, and every purchase is protected by our 100% satisfaction guarantee.

Best Sellers:

BRCA1 Antibody IHC plus™ LS B3772

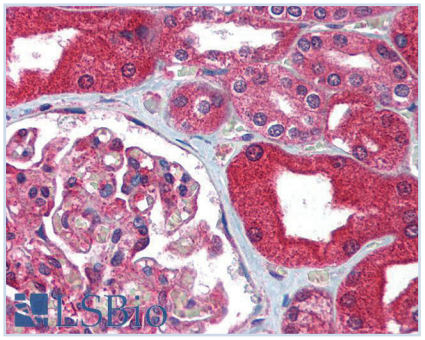
BRCA1 antibody LS-B3772 is an unconjugated rabbit polyclonal antibody to BRCA1 from human, mouse and rat. Validated for IHC, IP and WB. Tested on 20 paraffin-embedded human tissues.



Anti-BRCA1 antibody IHC of human breast. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 µg/ml.

ABCB1 / MDR1 / P Glycoprotein Antibody (aa262 277) IHC plus™ LS B1448

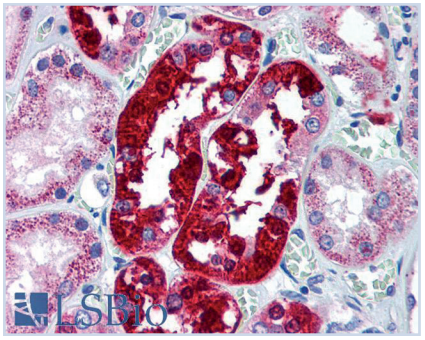
P Glycoprotein antibody LS-B1448 is an unconjugated rabbit polyclonal antibody to P Glycoprotein (ABCB1 / MDR1) from human, mouse, rat and other species. Validated for ELISA, IHC and WB. Tested on 20 paraffin-embedded human tissues.



Anti-MDR1 antibody IHC of human kidney. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 µg/ml.

APG5 / ATG5 Antibody IHC plus™ LS B1843

ATG5 antibody LS-B1843 is an unconjugated rabbit polyclonal antibody to ATG5 (APG5) from human, mouse, rat and other species. Validated for IHC. Tested on 20 paraffin-embedded human tissues.



Anti-ATG5 antibody IHC of human kidney. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 µg/ml.

Established in 1993, MBL International Corporation (MBLI) is a subsidiary of Medical and Biological Laboratories Co, Ltd (MBL), one of the leading biotechnology companies in Japan. Focused on providing high-quality, innovative, solutions-based products for both life science research and clinical diagnostics, MBLI supports research related to allergy, apoptosis, autophagy, cancer, epigenetics, immunology, neuroscience and more. The company's wide-ranging portfolio includes:

- Monoclonal and polyclonal antibodies
- MHC tetramers
- Fluorescent and recombinant proteins
- ELISA kits
- Flow cytometry products
- Exosome research products
- 3D cell culture products

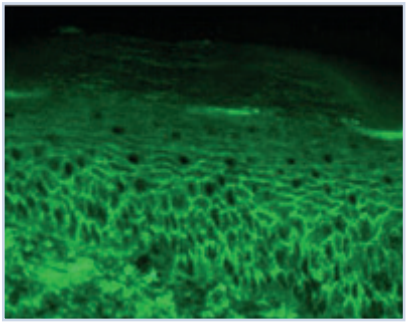
Advancing cancer research

MBLI offers an extensive selection of products designed to advance cancer research. These include antibodies against important targets such as p53, Atg5 and desmoglein; a wide variety of recombinant proteins relevant to cancer; assay kits which include CycLex®, MESACUP®, CircuLex® and Ab-Match products; and tetramers for various staining applications.

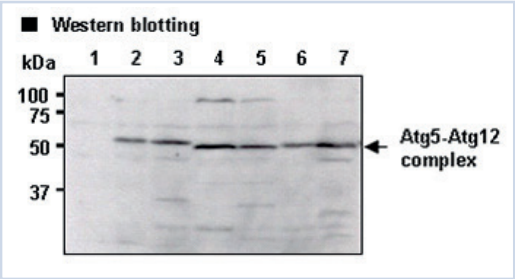
• Antibodies

All MBLI antibodies deliver quality data in the stated applications. Key antibody products for cancer research include:

Code No.	Name	Species Reactivities	Applications
D243-3	Acetylated-p53 (Lys382) Monoclonal Antibody	Human	WB
M074-3	Apaf-1 Monoclonal Antibody	Human, Mouse, Rat	WB
PM050	Atg5 Polyclonal Antibody	Human, Mouse, Rat	WB
MK-13-3	Cdk2 Monoclonal Antibody	Human, Mouse, Rat	WB
D219-3	Desmoglein-3 Monoclonal Antibody	Human, Mouse	IHC, ICC, IP
M033-3	FADD Monoclonal Antibody	Human, Mouse	WB
K0191-3	Oct-1 Monoclonal Antibody	Human	WB



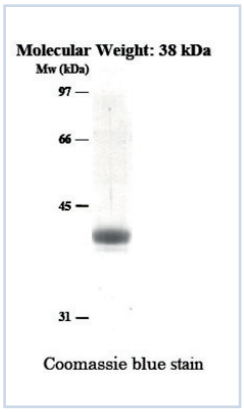
Immunohistochemical detection of Desmoglein-3 on a frozen section of mouse oral mucosa using D219-3. Data kindly provided by Dr. Amagai, M.D. Ph.D. and Dr. Tsunoda, Ph.D., Department of Dermatology, School of Medicine, Keio University, Tokyo.



Western blot analysis of Atg5 expression in various cell lysates using PM050. 1) Atg5$^{-/-}$MEF, 2) MEF, 3) NIH3T3, 4) HeLa, 5) 293T, 6) NRK, 7) PC12. Atg5$^{-/-}$MEF cells kindly provided by Dr. Mizushima, M.D. Ph.D., Department of Physiology and Cell Biology, Tokyo Medical and Dental University, Tokyo.

• Proteins

MBLI's protein products for cancer research include both active and inactive recombinant proteins, plus a range of blocking peptides designed to prevent antibody binding. Encompassing key cancer targets such as Chk1, p53 and various S100 and HDAC proteins, these products are provided with in-house testing data and, where available, a list of publications citing their use.



Recombinant Cathepsin S (catalogue number CY-E1250) demonstrates a band of approximately 38 kDa by SDS-PAGE analysis. This protein has a C-terminal His tag and is expressed in HEK293 cells. Specific activity varies between product lots.

• Kits

Included within MBLI's extensive selection of kits for cancer research are:

- CycLex® ELISA kits and kinase assay kits
- MESACUP® ELISA kits and kinase assay kits
- CircuLex® ELISA kits
- Ab-Match ready-to-assemble ELISA kits

Provided with detailed testing information such as calibration curves, intra-assay variability assessment, limit of detection data, and relevant measurement examples, these products enable evaluation of a wide range of cancer targets.

Ab-Match kits enable cancer antigen detection in an easy-to-use sandwich ELISA format. The Universal kit consists of the assay plate, capture antibody immobilization buffer, blocking buffer, sample dilution buffer, concentrated wash buffer, streptavidin-HRP dilution buffer, enzyme substrate and stop solution. Assembly kits comprise capture antibody, assay standard, biotinylated detection antibody and streptavidin-HRP or HRP-labeled detection antibody. Assembly kits for cancer research include FAM3D, TERT and PAP1.

• Tetramers

Offering superior specificity with an α3 mutation for reduced background, MBLI's tetramer products are powerful detection tools. Available as conjugates which include APC, PE and Brilliant Violet™ 421, they allow detection of antigen-specific T cells by flow cytometry or fluorescence microscopy.
Popular tetramer products for cancer research include:

- Human Class I Tetramer with HLA-A*02:01 allele, conjugated to PE; this has PR-1 specificity and VLQELNVTV peptide sequence (catalogue number TB-0017-1)
- Human Class I Tetramer with HLA-A*02:01 allele, conjugated to PE; this has HM1.24 specificity and KLQDASAEV peptide sequence (catalogue number TS-M083-1).

System Biosciences (SBI) is a leading provider of innovative products and services for exosome research, lentiviral technology and CRISPR/Cas9 studies. With a strong focus on bringing the newest methodologies to market, SBI was the first company to deliver exosome reagents and CRISPR/Cas9 vectors to the scientific research community.

In addition to its popular vectors and gene delivery technologies, SBI offers a comprehensive suite of custom services, including custom cloning, virus packaging, stable cell line generation, and cell line engineering.

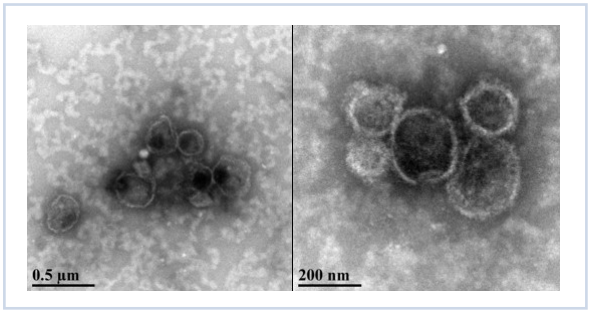
Advancing cancer research

SBI's exosome portfolio enables basic and translational researchers to better investigate the role exosomes play in cancer development and metastasis, plus identify important biomarkers to aid in the diagnostic process.

Complementing this, the company delivers high-quality products and services for mammalian gene delivery and expression. Cited in thousands of peer-reviewed papers, including many studies focused on cancer research, these include high-titre lentivirus production tools, the latest in AAV-based gene delivery systems, and a range of reliable integrating and nonintegrating gene expression vectors.

SBI also offers a range of easy-to-use CRISPR/Cas9 systems, empowering researchers to achieve efficient and highly-targeted genomic modification.

• **ExoQuick® ULTRA** (Catalogue number SBI-EQULTRA-20A-1 and SBI-EQULTRA-20TC-1)
Delivering high yields of extracellular vesicles (EV) that are also highly pure, ExoQuick® ULTRA requires just basic laboratory equipment and only 20 minutes hands-on time. From as little as 250 µL of serum or plasma or 5 mL of tissue culture media or other biofluid, researchers can achieve quality EVs suitable for use in a range of downstream applications.



EVs isolated using ExoQuick® ULTRA display typical EV morphology. Transmission electron micrographs of EVs isolated from human serum using ExoQuick. The same sample is shown at two different magnifications. Multiple vesicles with typical EV morphology can be seen in each image.

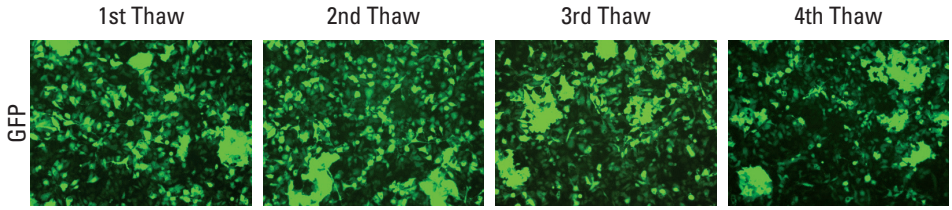
- Clean
- High yields
- Better biomarker detection
- Fast
- Cost-effective

• **pPACK Lentivector Packaging Kit** (Catalogue number SBI-LV500A-1)
Designed to efficiently package most third-generation lentivectors, SBI's pPACK Lentivector Packaging Kit makes it easy to deliver and express lentiviral constructs in a wide-range of mammalian cells. Used successfully to transduce dividing and quiescent cells, primary cells, stem cells, neuronal cells, endothelial cells, and more, the pPACK Lentivector Packaging Kit is highly optimised to achieve the highest titre lentivirus preps quickly and reliably.

• **PEG-it™ Virus Concentration Reagent** (Catalogue number SBI-LV810A-1)

Cited in over three-hundred publications, PEG-it™ Virus Concentration Reagent enables easy concentration of pseudoviral particles to produce ultra-high titres. Suitable to concentrate pseudoviral particles even from large volumes of medium by removing the need for ultracentrifugation, PEG-it™ is simply added to the collected medium, incubated overnight at 4°C, then spun at 1500 g for 30 minutes.

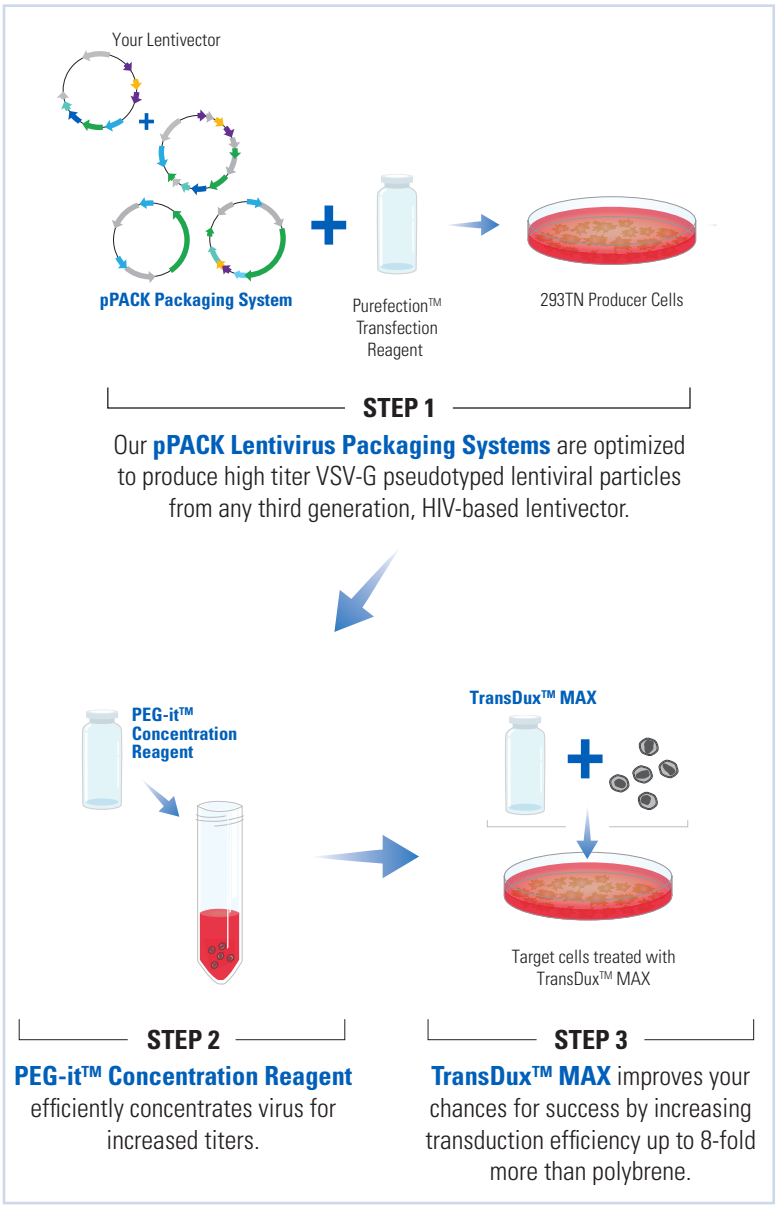
Also acting as a cryopreservative for concentrated virus, PEG-it™ Virus Concentration Reagent allows Lentivirus concentrated with PEG-it™ to last longer in the freezer and survive multiple freeze-thaw cycles with minimal loss of titre.



Lentivirus concentrated with PEG-it™ retains high titres even after four freeze-thaw cycles. Data shows HT1080 cells transduced with LV605VA-1.

• **TransDux™ MAX Transduction Reagent** (Catalogue number SBI-LV860A-1)

Delivering up to 8-fold greater transduction efficiency than polybrene, and 4-fold greater efficiency than the original TransDux™ reagent (as measured by qPCR), TransDux™ MAX works with all types of packaged lentivirus. Provided in an easy-to-use format, requiring minimal hands-on time, TransDux™ MAX empowers researchers to achieve reliable and reproducible gene delivery, even in infection-resistant cell types.



pPACK Lentivirus Packaging Systems, PEG-it™ Virus Concentration Reagent and TransDux™ MAX Transduction Reagent to enhance every step from lentivirus production to transduction.

Toronto Research Chemicals
products for innovative research

Toronto Research Chemicals, TRC was founded in 1982 to manufacture and supply researchers in the biomedical fields with specialized complex organic small molecules not otherwise commercially available. Today, Toronto Research Chemicals Inc. employs more than 300 full time staff, of which approximately 200 are PhD's and MSc's, operating in 120,000 square feet of facilities, including 15 production laboratories, in Toronto, Canada.

Why Choose Toronto Research Chemicals?

- Specialized in providing high quality bio-chemicals in custom pack sizes to satisfy any quantity required.
- Distribute to companies worldwide, usually, providing overnight delivery in North America via Federal Express.
- We also offer alternative carrier options to meet worldwide delivery and special import requirements as well as dangerous goods.
- A dedicated professional customer service team positioned to ensure customer satisfaction and technical support.

Why are our products unique?

Well at Toronto Research Chemicals (TRC), we provide our customers with an array of innovative research tools. With a catalog of over 200,000 compounds, we offer products ranging from APIs, intermediates and chemical impurities to antibodies, ELISA kits, and screening libraries. In addition, we provide a broad range of analytical services as well as custom synthesis. We are backed by over 35 years of experience in custom synthesis, with a team of more than 200 Ph.D. & MSc chemists working to fulfil your needs. Whether it be the development of new synthetic routes, customized chemical cocktails or standardized reference materials, we can do it.

Furthermore, size is not an issue, as we boast milligram to kilogram batch synthesis capabilities to fill any order. Moreover, our project planning team will work with you to outline synthetic routes, time frames, and quotes for production. As well via our regular updates, you will always be in the know on how your project is progressing. We also guarantee our customers 100% confidentiality in regard to their custom synthesis. Finally, our products undergo intense QA and QC testing to ensure you, the consumer, get a product of the utmost quality. We provide customers with the latest in QA services, as well as purity by HPLC, MSDS, CFA (Certificate of Analysis), spectral data and custom packaging for delivery around the world. Our dedicated & professional technical support team will work around the clock to answer any questions and/or concerns you may have after purchase. Overall, what makes our products unique is there wide variety, incredible customization, and tremendous quality.

OVER 4000 PRODUCTS TO SUPPORT

CANCER RESEARCH

BIOCHEMICALS I ELISA KITS I CUSTOM SYNTHESIS

RESEARCH CHEMICALS

TARGETING

- Angiogenesis
- Apoptosis
- Cancer Immunology
- Cancer Metabolism
- Epigenetics
- Growth Factors
- Cytokines
- Metastasis
- Cancer Stem Cells
- Cell Cycle
- Multidrug Transporters
- Signal Transduction

ELISA KITS

TARGETING

- Metabolism
- Oxidative Stress
- DNA Damage
- Tumor Immunology
- Tumor Invasion
- Wnt Pathway Analysis
- Apoptosis/Necrosis
- Autophagy
- Oncogenic Signaling

CUSTOM SYNTHESIS

- Value added synthesis
- New synthetic routes
- Isotope labeling
- Certified products
- State-of-art QA services
- Quality spectral data

TRC

110,000+
Fine Chemicals

20,000+
ELISA Kits

6,000+
Product Citations

2,000+
Product Reviews

absolute antibody

Engineered Antibodies for All
Absolute Antibody follows the vision that all antibody users should be able to use recombinant antibodies, which are absolutely defined by their amino acid sequence. Rather than creating entirely new antibodies (or antibody-like molecules), Absolute Antibody take many classic antibodies and produce them in a novel, superior way, improving their usefulness by engineering.

EastCoast Bio

Our US-American Partner EastCoast Bio is a manufacturer and supplier of high quality antigens, antibodies, and specialized immunoassay reagents for the diagnostic manufacturing industry worldwide. EastCoast Bio offers monoclonal Tumor Markers and their corresponding antigens for callibration.

BACHEM
PIONEERING PARTNER FOR PEPTIDES

Since its foundation in 1971, Bachem's concepts and technologies pioneered industrial peptide manufacturing. Its history of firsts drives Bachem to continue developing pioneering innovations and offer a full range of integrated services to bring customers' breakthroughs to market. Bachem is specialized in the development and manufacture of biologically active peptides and complex organic molecules as active pharmaceutical ingredients (APIs) and as innovative biochemicals for research purposes.

As market leader, Bachem can offer you a wide range of biologically active peptides and biochemicals used in peptide research. In recent years, interest has gained for peptides in oncology as markers, vaccines, diagnostics, and drugs. Our offer of peptides is completed by a choice of low-molecular compounds such as lipids and amino acid derivatives used in cancer research. We offer more then 180 products for cancer research.

BioVision
BioVision Incorporated

BioVision develops and offers a wide variety of products including assay kits, antibodies, recombinant proteins & enzymes, Exosome products and other innovative research tools for studying Apoptosis, Metabolism, Cell Proliferation, Cellular Stress, Cell Damage and Repair, Diabetes, Epigenetics, Obesity and Metabolic Syndrome, Stem Cell Biology, Gene Regulation, Signal Transduction, etc. Our innovative, high quality products are ideal for basic science research as well as to accelerate drug discovery in disease-related areas like cancer, diabetes, obesity, Alzheimers disease, etc. BioVision's products are currently being sold in more than 60 countries worldwide.

The definition of cancer refers to a large number of diseases with the characteristic of abnormal growth of cells, that divide uncontrollably with the ability to infiltrate and destroy normal body tissue. Moving along this research trend in cancer, BioVision has developed a strong and diverse array of products to aid researchers answer basic and advanced cellular biology questions and help accelerate this growing field.

IQ Products is a global developer, manufacturer and supplier of a range of high-quality antibody-based diagnostic products. IQ Products is a privately owned company and is based in The Netherlands. IQ Products has met ISO 13485 conditions as well as 21 CFR 820 corresponding subparts. The company is ISO13485:2003 certified by DEKRA Certification B.V. for all activities, including research & development, manufacturing and marketing & sales.

Extensive know-how resulted in the development of innovative kits in niche areas and currently focuses on Women's Health and pregnancy related disorders in particular. With our oncology product line, we offer high quality products specifically selected to support women's oncological research.

ProSci™

ProSci offers a broad catalog of cancer antibodies and other related reagents, including targets involved in: Cancer Metabolism, Cell Cycle, Drug Resistance, Growth Factors, Invasion, Onco-proteins, Signal Transduction and Cancer immunology. Our Cancer antibodies are quality controlled and tested in applications such as WB, ELISA, IF, IHC, Flow and ICC. Our own in-house labs and animal facilities (USDA licensed and NIH/OLAW assured) are located in the US and provide an extensive array of antibody services. Established in 1998, ProSci is a reliable partner with over 15 years of serving the research community globally.

StressMarq Biosciences INC.

Established in 2007, StressMarq Biosciences Inc. is a supplier of life science products that operates out of Victoria, Canada with a small, but dedicated group of scientists. StressMarq provides the research community with high-quality reagents backed with rigorous quality control data, expert scientific support, and fast international delivery.

Cancer research requires a great diversity of life science products to investigate methods for diagnosis and treatment. We are dedicated to developing cutting edge research products to aid in the study of cancer, including monoclonal antibodies, polyclonal antibodies, antibody conjugates, proteins, immunoassays, and small molecule inhibitors.

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