



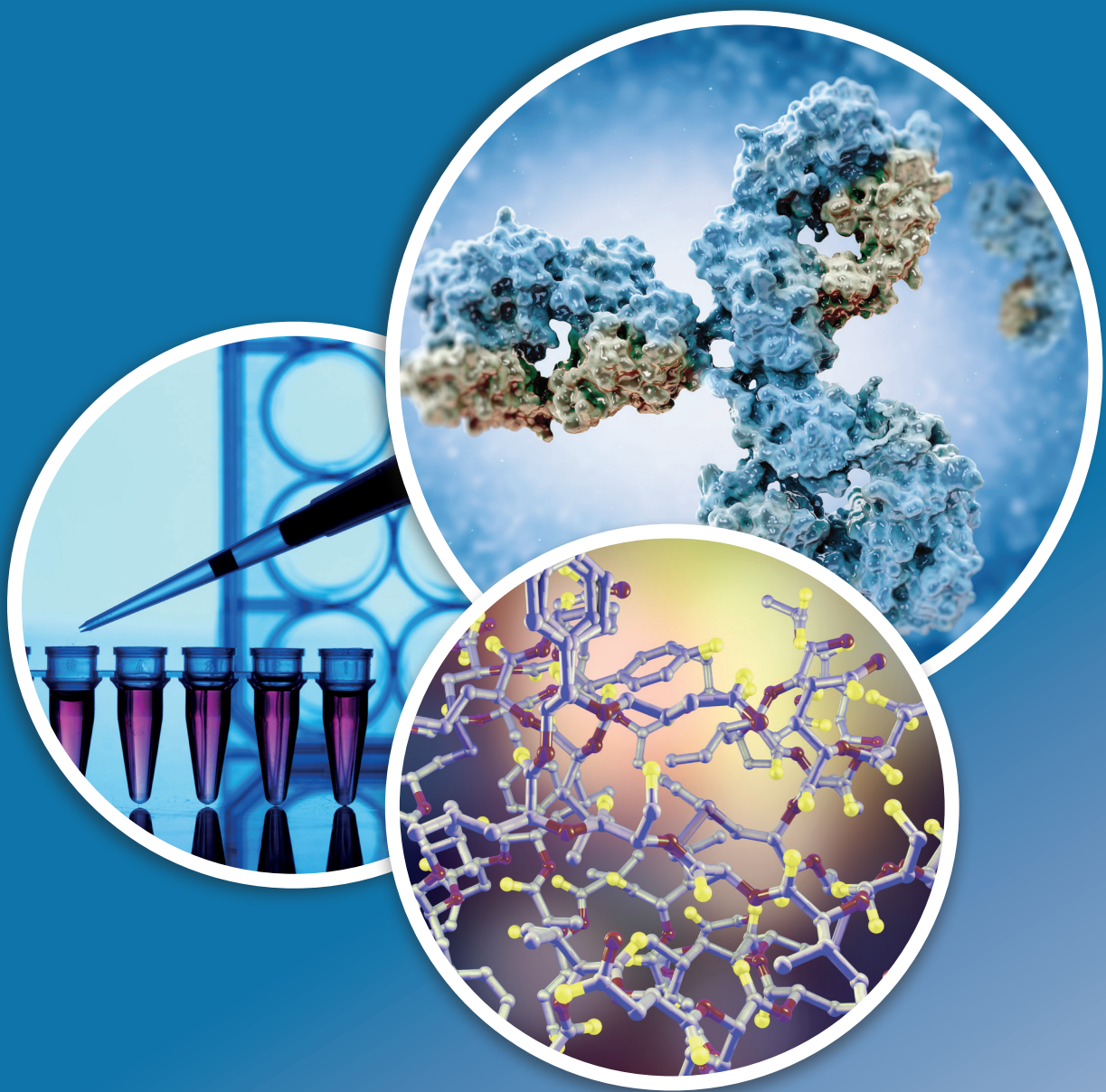
BIOZOL

FIT FOR SCIENCE

BRINGING QUALITY & EFFICIENCY TO RESEARCH



KITS & ASSAYS





Your Partner for Kits & Assays

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's extensive range of innovative assays and kits from the globe's top life science providers, save both time and money. Whatever your field of research BIOZOL has a kit or assay to meet your needs. Our comprehensive portfolio includes kits to amplify genomic DNA, ELISA and CLIA kits, western blot kits, immunohistochemistry staining kits, real-time PCR detection kits for pathogen testing and rapid test kits based on gold immunochromatography (GICA).



ARBOR ASSAYS

Interactive Assay Solutions™

Arbor Assays, the first US Employee-Owned life sciences company, specializes in the development of highly sensitive immunoassay, activity, and detection kits, high-purity inhibitors, and antibodies for drug discovery and basic research. Their mission is to build the highest quality and robust detection and immunoassay products for clinically important biomolecules.

They carry out every process from the basic assay research to manufacturing, QC and distribution. They have extensive experience developing the best kits for the measurement of important biomolecules. The table below shows some of our kits and the matrices they have been validated in.

	Fecal	Serum	Plasma	TCM	Urine	Lysates	Others
Corticosterone EIA & CLIA Kits, K014-H1/H5/C1/C5	✓	✓	✓	✓	✓	✓	✓
Cyclic AMP Direct EIA Kits, K019-H1/H5			✓	✓	✓	✓	✓
Glutathione Colorimetric/Fluorescent Kits, K006-H1/F1/F5		✓	✓	✓	✓	✓	✓
Progesterone EIA Kit, K025-H1/H5	✓	✓	✓	✓	✓	✓	✓
Prostaglandin E₂ Multi-Format EIA Kit, K051-H1/H5	✓	✓	✓	✓	✓	✓	✓
Butyrylcholinesterase Fluorescent Activity Kit, K016-F1		✓	✓			✓	✓

Arbor Assays prides itself on its collaboration with scientists to create innovative solutions to research problems. These collaborations have allowed them to introduce the world's first 2',3'-cyclic GAMP EIA Kit, K067-H1/H5, in STING signaling, the world's only specific assay for 20-Hydroxyecdysone EIA Kit, K066-H1/H5, used for measuring growth and stress in anthropods, such as insects and crustacea, and plants, along with many others.

Arbor Assays provides assays in the research areas of:

REPRODUCTION	CELL SIGNALING
STRESS	KIDNEY INJURY
OXIDATIVE STRESS	INFLAMMATION
METABOLISM	NORMALIZATION

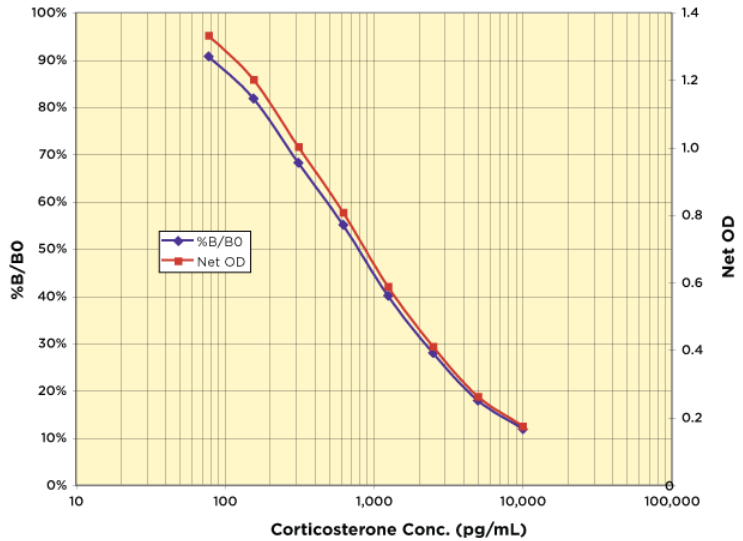
Corticosterone EIA Kit (Catalogue number AAY-K014-H1)

The DetectX® Corticosterone Immunoassay Kit is designed to quantitatively measure the steroid in serum, plasma, urine, fecal samples, and tissue culture media samples, as well as unique sample types such as hair, feathers, nails and respiratory exudates from whales. The kit has been used with multiple species. Their Corticosterone EIA Kit has been cited **over 240 times** across multiple publications.

Typical Data

Corticosterone Conc. (pg/mL)	Net OD	% B/B0
10,000	0.175	11.9
5,000	0.263	17.9
2,500	0.411	28.0
1,250	0.589	40.1
625	0.809	55.1
312.5	1.003	68.3
156.25	1.202	81.8
78.125	1.333	90.7
0	1.469	100.0

Typical Standard Curve



Measure CORT in ≤ 1 µL of plasma

This is the only kit available on the market to measure CORT in small tail bleed samples of 1-2 µL. Most commercial kits require 10-150 µL, or more mouse plasma. To see if even smaller samples could be used, 0.5, 1, and 2 µL of C57B/6 heparin plasma and followed the sample protocol. The 0.5 µL sample duplicates were 1.4%CV for OD and 4.7%CV for concentration.

All in 90 minutes with no extractions!



Representation of 1 µL of plasma

µL Plasma	Adj. Conc. (ng/mL)
0.5	142.6
1	122.0
2	134.5

Ave. Conc. (ng/mL)	SD	%CV
133.0	10.41	7.8

Offering antibodies to more than 7000 different targets, and releasing over 200 new antibody products every month, Aviva Systems Biology benefits from a high throughput antibody production process to generate many products that are not commercially available elsewhere. With a focus on developing antibodies to important targets in the areas of transcription, epigenetics and cell signaling, the company's comprehensive antibody portfolio covers most members of key protein families, including:

- Transcription factors
- Transcription regulators
- RNA binding proteins
- Ion channels
- Cell membrane proteins

With a rich pipeline of antibodies currently undergoing extensive Western blot characterization and validation using a carefully selected panel of six tissues and six cell lines, Aviva Systems Biology prioritises development of key antibody reagents to meet researchers' needs.

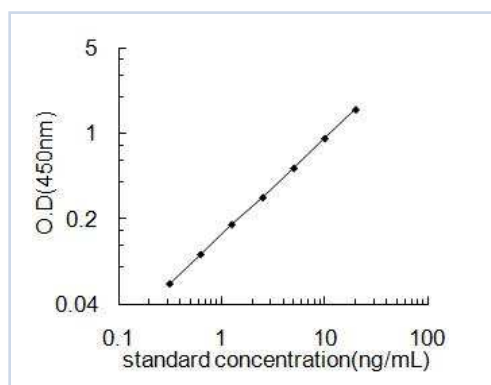
High-quality kits to streamline research

Aviva Systems Biology offers a wide range of easy-to-use kits, including products for ELISA, conjugation, Western blotting, and kits designed to facilitate various forms of immunostaining. Fully-validated and provided with user-friendly protocols, these products are backed by comprehensive and knowledgeable technical support.

ELISA kits

Encompassing sandwich, indirect, competitive and in-cell ELISA formats, Aviva Systems Biology's ELISA kits deliver guaranteed results with high-quality assay specifications for sensitivity and reproducibility. Covering over 8000 different assay targets, the company's ELISA kit range includes many popular products for oncology and neuroscientific research applications.

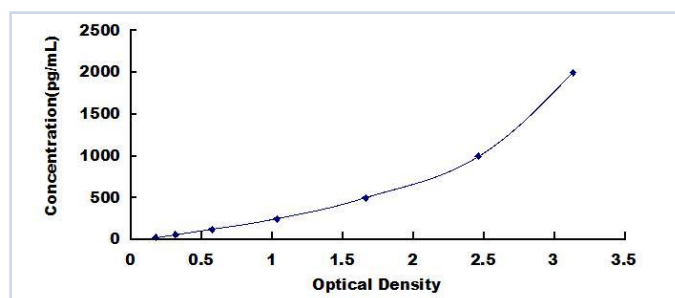
• CASP3 ELISA kit, human – a top-selling product for neuroscience research



Typical standard curve generated with CASP3 ELISA kit (catalogue number OKEH02670).

- Format: Sandwich ELISA
- Sensitivity: <0.078 ng/mL
- Kit range: 0.312 - 20 ng/mL
- Mean intra-assay CV: <6.5%
- Mean inter-assay CV: <7.2%
- Sample type: serum, plasma, tissue homogenate, cell culture supernatant, other biological fluids
- Detection method: colorimetric, OD450 nm

• APOE1 ELISA kit, human – helping oncology researchers understand the role of APOE1 in cancer



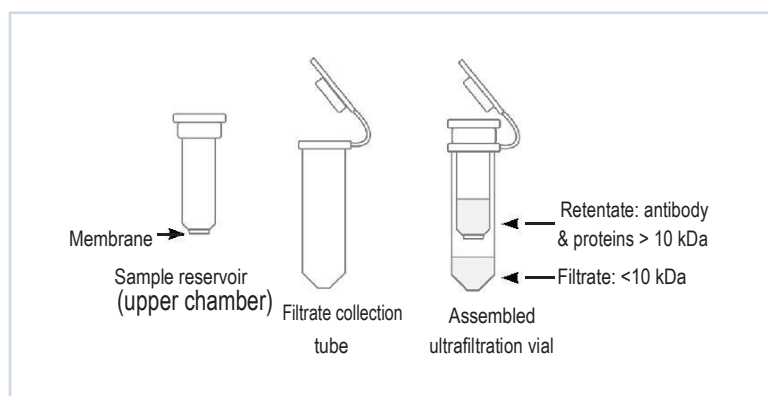
Typical standard curve generated with APOE1 ELISA kit (catalogue number OKCD06700).

- Format: Sandwich ELISA
- Sensitivity: <1.9 ng/mL
- Kit range: 4.7 - 300 ng/mL
- Mean intra-assay CV: <10%
- Mean inter-assay CV: <12%
- Sample type: serum, plasma, tissue homogenate, cell culture supernatant, other biological fluids
- Detection method: colorimetric, OD450 nm

Conjugation kits

To eliminate the background staining that can be associated with using labelled secondary antibodies for immunodetection, or to increase the number of readouts within a multi-colour immunostaining panel, it can be helpful to directly label one or more primary antibodies. Empowering researchers to perform this conjugation process in-house, Aviva Systems Biology's Mix-n-Stain antibody labeling kits employ a quick and easy protocol with no requirement for downstream antibody purification.

Aviva Systems Biology's Mix-n-Stain kits for conjugating antibodies to fluorescent labels are based on the highly-popular CF dyes. These water-soluble, small organic dyes span the visible and near-infrared spectrum, affording in many cases brighter, more photostable signal than competing products. Also included within the Mix-n-Stain range are widely-used labels such as HRP, biotin, FITC and RPE.



Mix-n-Stain kits are provided with an ultrafiltration vial for rapid concentration of the antibody prior to conjugation.

Western blot kits

Designed for the detection of specific antigenic targets, Aviva Systems Biology's Western blot kits typically contain reagents suitable to perform 10 reactions. These include blocking reagent, positive control, and antibodies for target identification and subsequent detection. Based on quality reagents which are manufactured in-house, Aviva Systems Biology's Western blot kits have been fully optimised for robust detection of a wide range of biomolecules.

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 & associated diseases
- Cardiovascular diseases
- Renal diseases
- Bone and cartilage
- Pulmonary diseases
- Cancer
- Sepsis
- Inflammation

ELISA kits

Frequently referenced in top-ranking scientific journals, BioVendor's ELISA kits are backed by over twenty years of expertise in disease markers. 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. Included within BioVendor's ELISA portfolio are several products recognised as being the first of their kind to reach the market.

Exhibiting high sensitivity and excellent analytical characteristics, BioVendor's ELISA kits are extremely user-friendly, typically benefiting from a more efficient protocol than competitor products and often including controls.

Antibodies

Widely literature-cited, BioVendor's portfolio of monoclonal and polyclonal antibodies includes many unique products, unavailable elsewhere. Subjected to extensive in-house characterisation, and tested for ELISA, Western blotting and IHC applications, BioVendor's antibodies deliver high specificity for target antigens.

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. Included within the company's range of antibody products are matched pairs which have been validated to produce immunoassays including CE IVD ELISA kits.

Proteins

Offering an extensive range of recombinant and native proteins, and in many cases recognised as the sole supplier, BioVendor is predominantly focused on manufacturing disease biomarkers, regulatory, and hormone-like protein products. These are widely used for immunisation, ELISA and Western blotting, and have also been referenced in numerous publications for cell culture applications.

With stringent characterization included within the QC process, and confirmation of protein identity determined by LC-MS/MS, BioVendor customers are assured of product quality. Using both *E. coli* and mammalian expression systems, BioVendor has the capacity to produce different orthologs and tag sequence variants of many widely-studied proteins. Protein modification and custom protein development services are also available on request.

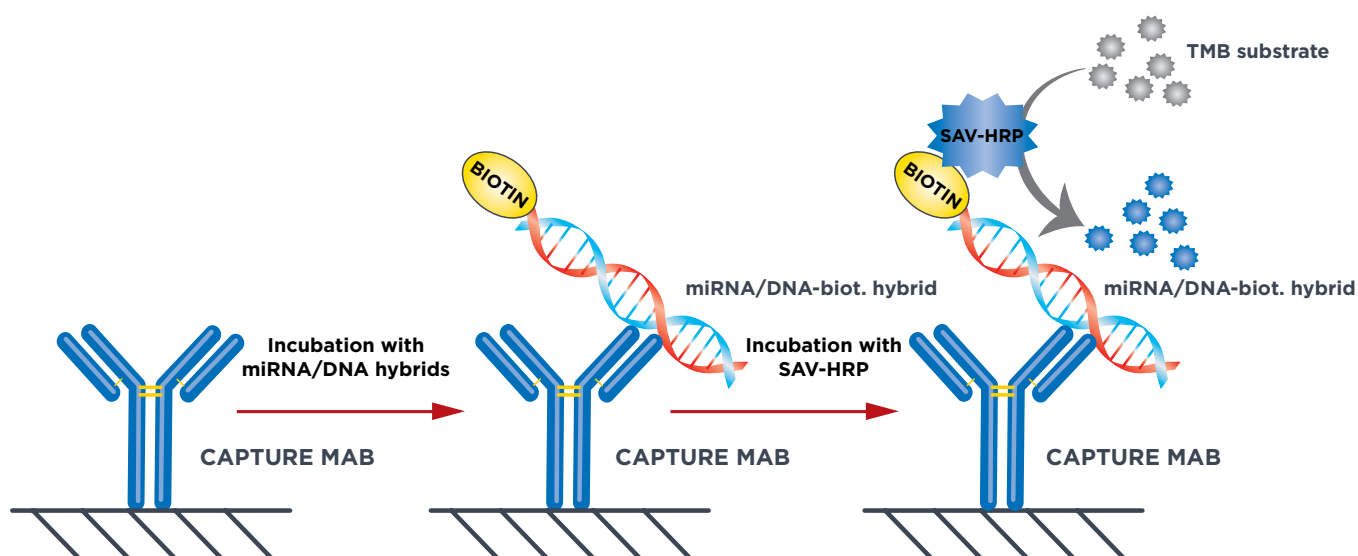
All BioVendor's protein products are supplied carrier-free for ease-of-use in downstream applications and are lyophilized to ensure product stability.

Micro-RNA biomarkers

To aid researchers in every step of their micro-RNA (miRNA) research, BioVendor have developed a comprehensive solution applicable in both research and clinical laboratory settings. This includes:

- Collection tubes and isolation kits validated for a wide spectrum of samples
- MiRXES ID3EAL miRNA qPCR technology
 - o Knowledge panels of up to 400 miRNAs for research in stem cells, biofluids and cancer
 - o Customer-defined panels
 - o Highly-sensitive MiRXES ID3EAL qPCR kits for any human or mouse miRNA (other species available on request), to facilitate multiplexing up to ten miRNA targets
- microRNA Enzyme ImmunoAssay (miREIA) kits based on a proprietary BioVendor technology which combines the near single nucleotide specificity of molecular biology methods with the simplicity of immunoassays to deliver robust quantitation and validation of qPCR results

miREIA - miRNA enzyme immunoassay principle



ELISA Kits



BioVision offers accurate, fully validated, ready-to-use ELISA Kits for convenient and sensitive quantitation of a wide range of targets in various sample types. These ELISA kits include pre-coated plates with capture/detection antibodies, standards, buffers and accessory reagents. Our stringent manufacturing and quality control standards allow us to offer the highest levels of performance and consistency with each ELISA kit you run.

Key Features:

- **Accurate:** reproducible results with low intra & inter assay variability
- **High Sensitivity & Specificity**
- **Versatile:** broad range of sample types such as serum, plasma, tissue, cell culture supernatant, urine & many other biological fluids.
- **Convenient:** No special handling or disposal required
- **Extremely Stable:** long shelf life, very low background

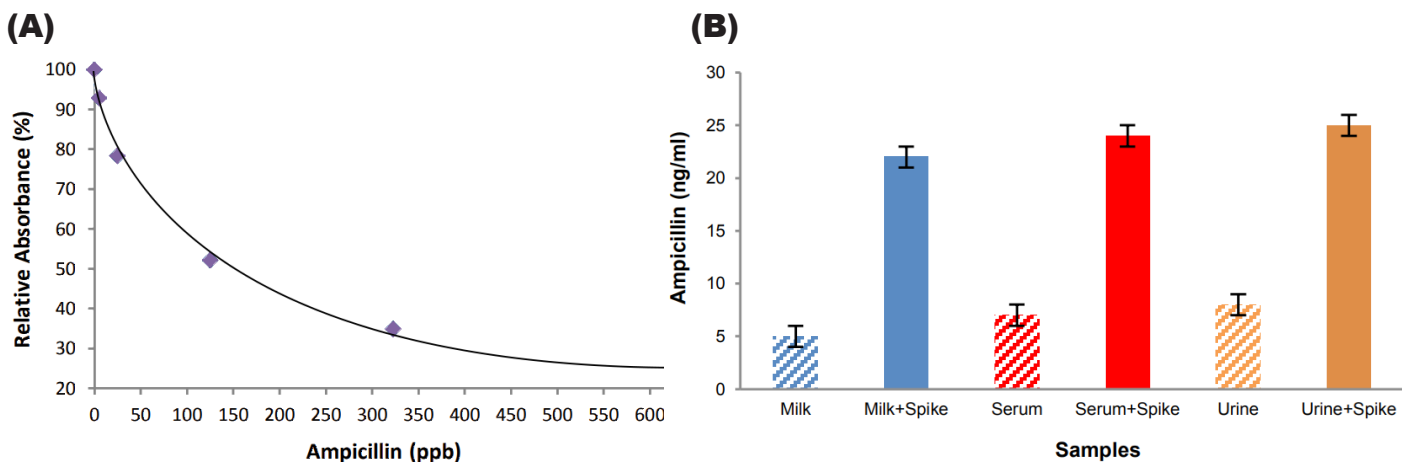


Figure: (A) Standard curve for Ampicillin ELISA kits (E4350). (B) Real biological samples assayed alone or spiked to a final expected concentration of 20 ng/ml showed 80-100% recovery for Ampicillin ELISA kits (E4350).

Product Name	Cat. No.	Information
alpha-Synuclein (SNCA) ELISA Kit	K4261	Quantitative measurement of human α -synuclein in bio samples.
Amoxicillin ELISA Kit	E4614	Quantitative measurement of Amoxicillin in bio samples.
Ampicillin ELISA Kit	E4350	Quantitative measurement of ampicillin in bio samples.
AMPK (Human) ELISA Kit	E4280	Quantitative measurement of human AMPK in bio samples.
Angiopoietin-1 (Human) ELISA Kit	K7115	Quantitative protein detection, establishing normal range, etc.
Angiostatin (Human) ELISA Kit	K4755	Quantitative protein detection, establishing normal range, etc.
ANGPTL3 Serum ELISA Kit	K4914	Assay detects human ANGPTL3.
ANGPTL6 (Human) Serum ELISA Kit	K4916	Assay detects human ANGPTL6.
BioSim™ anti-Adalimumab (Humira®) (Human) ELISA Kit	E4388	Measurement of antibody against Adalimumab in bio samples.
BioSim™ anti-Avelumab (Bavencio®) (Human) ELISA Kit	E4557	Determination of antibody against Avelumab in bio samples.
BioSim™ anti-Bevacizumab (Avastin®) (Human) ELISA Kit	E4389	Measurement of antibody against Bevacizumab in bio samples.
BioSim™ anti-Cetuximab (Erbix®) (Human) ELISA Kit	E4391	Measurement of antibody against Cetuximab in bio samples.
BioSim™ anti-Denosumab (Prolia®) (Human) ELISA Kit	E4394	Determination of antibody against Denosumab in bio samples.
BioSim™ anti-Etanercept (Enbrel®) (Human) ELISA Kit	E4392	Determination of antibody against Cetuximab in bio samples.
BioSim™ anti-Filgrastim (Neupogen®) (Human) ELISA Kit	E4399	Measurement of antibody against Filgrastim in bio samples.
BioSim™ anti-Golimumab (Simponi®) (Human) ELISA Kit	E4393	Determination of antibody against Golimumab in bio samples.
BioSim™ anti-Infliximab (Remicade®) (Human) ELISA Kit	E4387	Measurement of antibody against Infliximab in bio samples.
BioSim™ anti-Infliximab (Remsima®) (Human) ELISA Kit	E4390	Measurement of antibody against Infliximab in bio samples.
BioSim™ anti-Ipilimumab (Yervoy®) (Human) ELISA Kit	E4398	Determination of antibody against Ipilimumab in bio samples.
BioSim™ anti-Nivolumab (Opdivo®) (Human) ELISA Kit	E4396	Determination of antibody against Nivolumab in bio samples.
BioSim™ anti-Omalizumab (Xolair®) (Human) ELISA Kit	E4395	Determination of antibody against Omalizumab in bio samples.
BioSim™ anti-Pembrolizumab (Keytruda®) (Human) ELISA Kit	E4397	Determination of antibody against Pembrolizumab in bio samples.
BioSim™ anti-Rituximab (Mabthera®) (Human) ELISA Kit	E4385	Measurement of antibody against Rituximab in bio samples.
BioSim™ anti-Trastuzumab (Herceptin®) (Human) ELISA Kit	E4386	Measurement of antibody against Trastuzumab in bio samples.
Apolipoprotein E (Human) ELISA Kit	K4696	Quantitative measurement of human Apolipoprotein E (ApoE).
Apolipoprotein E4/Pan-ApoE (Human) ELISA Kit	K4699	Quantitative measurement of human Apolipoprotein E4 (ApoE4).
Aspartate Aminotransferase (AST) (Mouse) ELISA Kit	E4320	Quantitative measurement of human AST in bio samples.
BioSim™ Avelumab (Bavencio®) (Human) ELISA Kit	E4556	Quantitative measurement of Avelumab in bio samples.
BDNF (Human) ELISA Kit	K4788	Quantitative protein detection, establishing normal range, etc.
beta-Endorphin ELISA Kit	E4458	Quantitative measurement of beta-Endorphin in bio samples.
Beta-NGF (Human) ELISA Kit	K4787	Quantitative protein detection, establishing normal range, etc.
BioSim™ Bevacizumab (Avastin®) (Human) ELISA Kit	E4373	Quantitative measurement of Bevacizumab in bio samples.
BLC/BCA-1/CXCL13 (Human) ELISA Kit	K4766	Quantitative protein detection, establishing normal range, etc.
BMP-7 (Human) ELISA Kit	K4749	Easy, convenient & efficient method to assay for human BMP-7.
CA19-9 (Human) ELISA Kit	K7427	Quantitative determination of CA19-9.
Caffeine ELISA Kit	E4558	Quantitative measurement of Caffeine in serum, urine & saliva.
Calmodulin ELISA Kit	E4322	Quantitative measurement of human Calmodulin in bio samples.
Cancer Antigen 125 (CA-125) (Human) ELISA Kit	K4803	Quantitative protein detection, establishing normal range, etc.
Cancer Antigen 15-3 (CA15-3) (Human) ELISA Kit	K4804	Quantitative protein detection, establishing normal range, etc.
Carcinoembryonic Antigen (CEA) (Human) ELISA Kit	K4805	Quantitative protein detection, establishing normal range, etc.
Caspase-1 (Mouse) ELISA Kit	K4180	Quantitative measurement of mouse Caspase-1 in bio samples.
Caspase-3 (Human) ELISA Kit	K4221	Quantitative measurement of human Caspase-3 in bio samples.
Caspase-7 (Human) ELISA Kit	E4295	Quantitative measurement of human Caspase-7 in bio samples.
Cathepsin B ELISA Kit	K7408	Quantitative protein detection, establishing normal range.
Cathepsin D ELISA Kit	K7409	Quantitative protein detection, establishing normal range.
Cathepsin S (Human) ELISA Kit	K7277	Quantitative protein detection, establishing normal range.
CCL2/MCP-1 (Human) ELISA Kit	K7338	Quantitative protein detection, establishing normal range, etc.
CD40 (Human) ELISA Kit	K3072	Quantitative protein detection, establishing normal range, etc.
CD40L (Human) ELISA Kit	K4783	Quantitative protein detection, establishing normal range, etc.
CETP (Human) ELISA Kit	K4170	Quantitative measurement of human CETP in bio samples.

Cygnus Technologies is the leading provider of assays and services for the detection and characterization of impurities, such as host cell proteins, in biopharmaceuticals. Building on innovative, proprietary technology, the company develops highly specialized analytical products that meet the unique needs of the pharmaceutical, vaccine, gene therapy, and biotechnology industries.

Impurity analysis is an important step in biotherapeutic regulatory approval and quality control processes. With kits, immunoassay reagents, orthogonal analysis services, and expert advice, Cygnus Technologies helps biopharmaceutical companies accelerate the movement of new therapeutics through the development and approval stages to market.

A privately held company, acquired by Maravai LifeSciences in 2016, Cygnus Technologies also offers outsourcing capabilities, using highly specialized technologies to develop custom, target-specific antibodies and assays.

CHO 3G HCP ELISA Kit (F550)

Expression of therapeutic proteins in CHO cells is a cost-effective method to produce commercial quantities of a drug substance. However, manufacturing and purification processes leave the potential for host cell protein (HCP) impurities. Since these may reduce the efficacy of the therapeutic agent or result in adverse toxic or immunological reactions, it is desirable that they are reduced to the lowest levels practical.



One of Cygnus Technologies' best-selling products, the CHO 3G HCP ELISA kit (F550) is an easy-to-use immunoassay. Intended to react with essentially all CHO HCPs that could contaminate the product, the kit uses specialised antibody reagents to deliver exceptional sensitivity. Qualified for testing final product HCPs using actual in-process and final drug substance samples from drug products including monoclonal antibodies and other therapeutic proteins, the CHO 3G HCP ELISA kit is a powerful method to aid in optimal purification process development, process control, routine quality control, and product release testing.

E. coli HCP ELISA Kit (F410)

Recombinant expression in E. coli is a relatively simple and cost-effective method for producing certain proteins and plasmid DNA (pDNA). Yet since many of these products are intended for therapeutic use, it is desirable that host cell protein (HCP) impurities are reduced to the lowest levels practical to avoid adverse toxic or immunological reactions or reduced efficacy of the therapeutic agent.



Using antibodies generated against a blended lysate of E. coli from a variety of strains (including the commonly used DH5α and BL21 strains), Cygnus Technologies' E. coli HCP ELISA kit (F410) is a broadly-reactive, 'generic' HCP assay. Intended to detect essentially all the E. coli HCPs that could contaminate the product, the easy-to-use immunoassay has been successfully qualified for testing of final product HCPs in many different products, regardless of growth and purification process.

Founded in 1990, EdgeBio are recognised as the “sequencing purification supplier of choice” for many leading academic and government institutions, biopharmaceutical and biotechnology companies, and research institutions worldwide. An ISO 9001:2008 certified company, specialising in developing and marketing reagents for DNA sequencing clean-up and nucleic acid purification, EdgeBio manufactures products which employ rapid and simple protocols. These are designed to minimize hands-on time while providing reproducible, high-quality results.

Within EdgeBio’s innovative product portfolio, the company offers:

- Dye Terminator Removal products, including EdgeBio’s original Performa® DTR products and the new Optima DTR™ product line, the gold standards in gel filtration-based DTR
- High-throughput PCR purification products, including QuickStep2™ and ExcelsaPure plates
- Sample preparation products, including PurElute™ Bacterial Genomic DNA kit and Quick-Precip™ reagents
- Bacterial competent cells for DNA cloning and recombinant protein expression
- PCR purification and sample preparation accessories, including the highly-popular 96-well adhesive plate sealers

Adhesive plate sealers

Adhesive plate sealers afford an efficient and robust method of protecting precious samples. Ideally suited to prevent evaporation during thermal cycling or sample storage, these essential laboratory consumables are more convenient than other capping methods and represent a cost-effective approach to sample containment for a variety of applications.

EdgeBio’s adhesive plate sealers are ideal for protecting samples in 96-well and 384-well plates during shaking, incubation, and storage. Resistant to heat and cold (-20°C to 100°C), they can be secured to any flat surface. Packaged in sets of 25 for maximum convenience, EdgeBio’s adhesive plate sealers leave no sticky residue when removed from the microplate, allowing plates to be sealed multiple times with the same sealer to minimise waste.

Gas permeable plate sealers

Also included within EdgeBio’s range of accessory products, gas-permeable plate sealers (catalogue number 97584) perform a similar protective function while allowing oxygen to flow into the microplate wells. This facilitates the growth of bacteria, yeast, and other cells, and is a more effective method than a traditional plate lid which can limit oxygen flow. Using EdgeBio’s gas-permeable plate sealers, researchers can achieve significantly improved cell growth.



EdgeBio’s adhesive plate sealers
(catalogue number 48461)



EdgeBio’s gas-permeable plate sealers
(catalogue number 97584)

With decades of immunoassay and protein chemistry expertise, ImmunoChemistry Technologies, LLC (ICT) offers a comprehensive portfolio of cell viability assays, purified and carrier-free recombinant proteins, and high-quality reagents for ELISA and other immunoassays. Supporting researchers through reliable solutions for cellular analysis and immunoassay development, the company's products are backed by specialist technical support.

Cell Viability Assays

Included within ICT's cell viability product portfolio is a large range of fluorescent assays designed for use with whole, live cells. Optimised to detect apoptosis, necrosis, intracellular caspase activity, cell-mediated cytotoxicity, activated serine proteases, autophagy, oxidative stress, mitochondrial membrane permeability, and more, these products are provided in a user-friendly format for easy incorporation into existing workflows.

• **Green Cathepsin B Assay** (Catalogue number ICT-9152 and ICT-9151)

One of ICT's newest product offerings, the Green Cathepsin B Assay allows researchers to detect and monitor intracellular Cathepsin B activity over time. Known to function in early neutrophil, T and B cell apoptosis, and in TLR signaling and TNF- α production, Cathepsin B is implicated in various inflammatory disorders, cancer and Alzheimer's disease, making its study paramount to many different research areas.

Harnessing the protease activity of Cathepsin B, the Green Cathepsin B Assay employs a straightforward add and read protocol, with no requirement for cell lysis or permeabilisation. Based upon a non-cytotoxic and cell membrane permeant substrate that fluoresces green upon cleavage, cell viability can be evaluated in vitro through comparison of test samples to relevant controls via flow cytometric analysis or fluorescence microscopy.

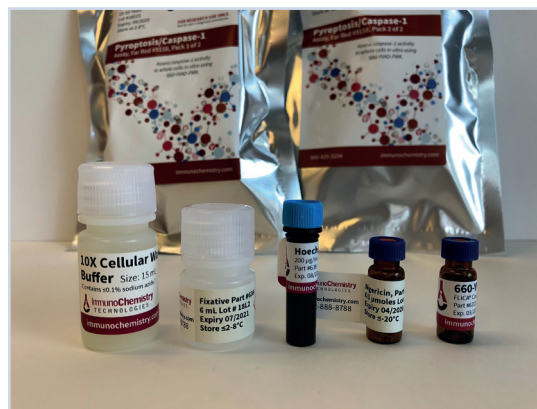


Green Cathepsin B Assay

• **Pyroptosis/Caspase-1 Assay, Far Red** (Catalogue number ICT-9158)

Another recent addition to ICT's product portfolio, the Pyroptosis/Caspase-1 Assay, Far Red is currently the only product on the market to afford in vitro detection of pyroptosis within whole live cell samples using fluorescence. Believed to play a key role in inflammatory diseases such as Crohn's disease and ulcerative colitis, dysregulation of pyroptosis (also known as caspase 1-dependent cell death) is studied with the aim of achieving therapeutic benefit.

Based upon ICT's highly popular FLICA technology, the Pyroptosis/Caspase-1 Assay relies on a cell permeant fluorescent reagent that binds irreversibly to activated Caspase-1. The resultant far-red fluorescent signal provides a direct measure of the Caspase-1 enzyme activity present in the cell at the time the reagent was added. Compatible with flow cytometric analysis or fluorescence microscopy, cells labeled with the FLICA reagent may be read immediately or preserved for up to 16 hours using the fixative included within the kit.



Pyroptosis/Caspase-1 Assay

ELISA and Assay Reagents

With a strong focus on immunoassay development and offering significant expertise in ELISA, ICT has developed an extensive selection of products to help researchers achieve robust and reproducible ELISA data. Working together to address common ELISA issues such as specificity, sensitivity, reproducibility, and shelf-life, these products include:

- Plates and accessories
(plate sealing covers, foil storage bags, desiccant packs)
- Coating buffers
- Blocking buffers
- Wash buffers
- Sample and assay diluents
- Conjugates and stabilisers
- Substrates
- Stop solutions
- ELISA development kits
(an economic alternative to buying individual reagents)



Antibody sandwich ELISA development kit
(Catalogue number ICT-9100)

Proteins

With utility as standards in a wide range of applications, recombinant proteins are an essential assay control. ICT offers an extensive range of immunology-related recombinant proteins which includes purified and carrier-free cytokines, chemokines, growth factors, and other proteins expressed in yeast. All ICT's recombinant proteins are animal-free.

A close-up photograph of green grass blades with dew drops, creating a bokeh effect in the background. The image is used as a background for the central text box.

Your partner for real-time PCR
applications, gene expression analysis
and pathogen detection assays

Specialising in PCR-based techniques, Ingenetix has long-standing expertise in the development of pathogen detection assays for applications in both human and veterinary medicine. Well-established as an experienced manufacturer of real-time PCR-based kits for the detection of pathogens including bacteria, viruses, fungi and parasites, the company manufactures kits for human medicine suitable for in vitro diagnostic (CE-IVD) use. Ingenetix also produces veterinary medicine products approved by the Friedrich-Loeffler-Institute (FLI).

Quality assured through EN ISO 13485:2016 certification, all Ingenetix kits include a primer-probe mix, an internal positive control assay, a DNA or RNA positive control, plus reaction mix and water, allowing researchers to benefit from:

- High efficiency - reduced run time due to rapid hot-start Taq DNA polymerase
- Accurate results – internal positive control system to exclude false-negatives
- Consistency - optimized to handle PCR inhibitors
- Simplified application - harmonized thermal profiles to run RNA and DNA samples simultaneously

Real-time PCR-based kits for pathogen detection

Developed for the Applied Biosystems® 7500 System (Thermo Fisher Scientific), the LightCycler® 480 (Roche) and Agilent's Mx3005P® QPCR System, Ingenetix' pathogen detection kits run on all established standard real-time PCR- platforms.



**ViroReal® kit for detection
of PRRSV Virus EU & NA 1.1
(Catalogue number ING-DVEV00153)**

Quantitative standards and control assays

To complement the extensive portfolio of real-time PCR-based kits, Ingenetix offers a range of quantitative PCR standards and control assays. The standards are intended for use with BactoReal®, ViroReal® and ParoReal kits, containing a fragment of DNA or RNA at a concentration of 10^7 copies/ μ L for which the standard curve has been determined. The control assays include ControlReal for monitoring PCR inhibition, and Internal Positive Control Assays for controlling DNA/RNA extraction and monitoring PCR/RT-PCR inhibition.

The company's continuously-expanding product portfolio includes:

- BactoReal® Kits and BactoReal® Assays for the detection of bacteria
- MycoReal Kits and MycoReal Assays for the detection of fungi
- ViroReal® Kits and ViroReal® Assays for the detection of viruses
- ParoReal Kits and ParoReal Assays for the detection of parasites
- BactoTyping and ViroTyping Kits for PCR-based genotyping of bacteria and viruses
- Internal Positive Control Assays (labelled with VIC, NED or Cy5) with DNA or RNA target

Experience the Mabtech **ELISA**

Mabtech provides well-designed ELISA kits for specific, sensitive, and robust quantification of analytes in solution. A comprehensive selection of ELISA kits is available for the quantification of cytokines, immunoglobulins, and apolipoproteins. For example, we offer a broad range of ELISAs to detect the cytokine IFN- γ for more than 10 different species.



ELISA kits

- Based on highly specific monoclonal antibody (mAb) pairs selected for optimal performance
- Detection of cytokines, immunoglobulins and apolipoproteins
- Available for more than 10 different species
- Suitable for research use
- Excellent technical support



Mabtech ELISA kits

Our platform of high-quality mAbs enables research on your own terms. We supply ELISA kits for research use in two formats: adaptable ELISA development kits and complete ELISA^{PRO} kits including all that is needed for a straightforward assay. Our ELISA^{PRO} kits feature pre-coated strip plates for reduced assay time and minimal assay variability.

ELISA development kit



- Capture mAb
- Biotinylated detection mAb
- ELISA standard
- Streptavidin–ALP/HRP

ELISA^{PRO} kit



- Pre-coated 96-well strip plates
- Biotinylated detection mAb
- ELISA standard
- Streptavidin–HRP
- TMB substrate and stop solution
- Buffers

Supplementary Products

Several supplementary products are available to complement our kits and antibodies, ranging from Streptavidin–enzyme conjugates to ready-to-use ELISA substrates and ELISA buffers. The ELISA diluent, the Apo ELISA buffer, and the Assay buffer have been developed for use with Mabtech ELISAs and are able to prevent heterophilic antibody interference during analysis of serum/plasma samples.

PRODUCT	SIZE	CODE
Streptavidin-enzyme conjugates		
Streptavidin–ALP	1 ml	3310-8
Streptavidin–HRP	1 ml	3310-9
Ready-to-use ELISA substrates		
TMB ELISA Substrate	120 ml	3652-F10
pNPP ELISA Substrate	120 ml	3652-p10
ELISA buffers		
Ready-to-use ELISA diluent	2 x 120 ml	3652-D2
Ready-to-use Assay buffer	2 x 120 ml	3652-J2
Apo ELISA buffer concentrate 5x	2 x 120 ml	3652-M2

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

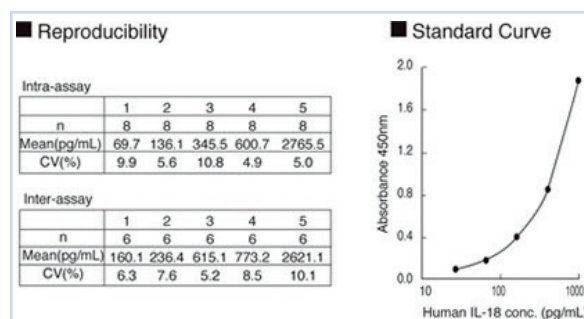
Innovative kits to streamline research

MBLI offers an extensive range of easy-to-use kits, optimised for applications such as the study of disease pathways, screening for possible drug candidates, and evaluation of biopharmaceutical production processes. Delivering high sensitivity and low limits of detection, popular products include ELISA kits, kits for monitoring apoptosis, IHC staining kits, protein purification kits, and Ab-Match assembly kits.

Human IL-18 ELISA kit

With over 60 citations, MBLI's human IL-18 ELISA kit (catalogue number 7620) is used to study conditions which include allergic diseases, autoimmune diseases, type II diabetes and acute renal disorder. A sandwich ELISA format with high sensitivity (12.5 pg/ml), this product delivers exceptional intra- and inter-assay reproducibility.

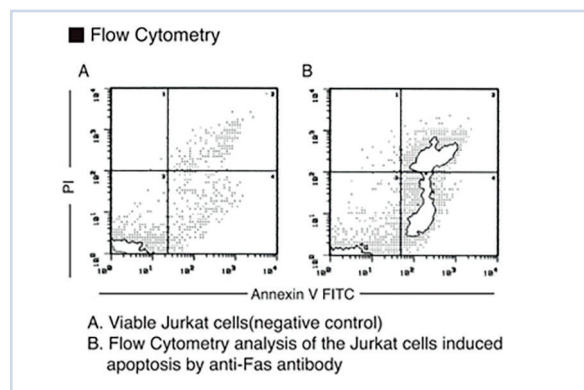
Complementing this product, MBLI's mouse IL-18 ELISA kit (catalogue number 7625) is also widely literature-cited.



Data generated with MBLI's human IL-18 ELISA kit (catalogue number 7620).

MEBCYTO® apoptosis kit

Empowering researchers to identify cells in an earlier stage of apoptosis than assays based on DNA fragmentation, MBLI's MEBCYTO® apoptosis kit (catalogue number 4700) relies on an Annexin V-FITC conjugate. Dual staining with propidium iodide (PI) and Annexin V is a common method to discriminate apoptotic and necrotic cell death, with dual staining indicating necrosis and staining with Annexin V only used to confirm apoptosis.



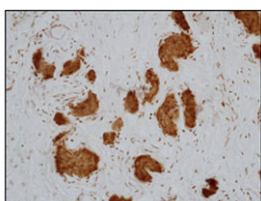
MBLI's MEBCYTO® apoptosis kit can be used for accurate detection of apoptotic cells.

Acetylcholinesterase rapid staining kit

A serine hydrolase known to play a key role in the pathogenesis of Alzheimer's Disease, acetylcholinesterase (AChE) is often evaluated by immunohistochemistry (IHC). To facilitate this research, MBL's acetylcholinesterase rapid staining kit (catalogue number 8450) has been thoroughly optimised to afford user-friendly visualisation of this important enzyme by DAB staining.



Myenteric ganglia in normal intestine (x200)

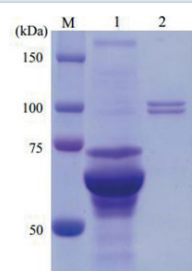


Submucosal hypertrophic nerve trunks in Hirschsprung's disease (x400)

IHC staining of AChE using MBL's acetylcholinesterase rapid staining kit (catalogue number 8450). Photos kindly provided by Dr. Kobayashi H., Juntendo University.

Protein purification kits

Many protein purification methods exploit tags such as V5 or c-Myc. Designed for the isolation of tagged proteins from cell lysate or culture supernatant, MBL's V5-tagged protein purification kit Ver. 2 (catalogue number 3317) and c-Myc-tagged protein mild purification kit Ver. 2 (catalogue number 3305) are provided with antibody-loaded beads, and spin columns, for efficient protein purification.



} V5-tagged TPO Protein

Lane 1: Before purification

Lane 2: V5-tagged PURIFICATION Ver.2
(Peptide purification)

Purification of V5-tagged TPO protein using MBL's V5-tagged protein purification kit Ver. 2 (catalogue number 3305).

Ab-Match Assembly human PAP1 (REG3α) kit (Catalogue number MBL-5323)

Intended for use with MBL's Ab-Match Universal kit (catalogue number MBL-5310), the Ab-Match Assembly human PAP1 (REG3α) kit is intended for detection of PAP1 via a sandwich ELISA format using streptavidin-HRP for detection. Cited in several publications, this product has proven utility to detect PAP1 in culture supernatant derived from the colon cancer-derived cell line OUMS-23.



Ab-Match Assembly Kit



Ab-Match Universal Kit

Ab-Match kits afford 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.

Accuracy Matters in Salivary Bioscience

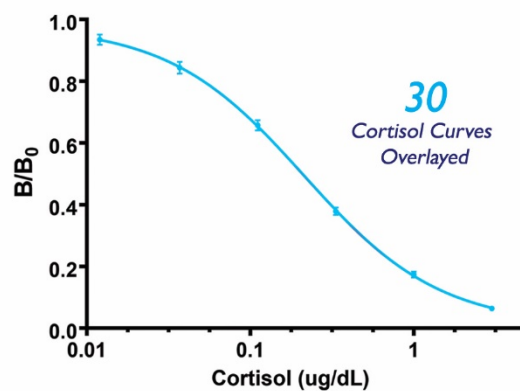
Delivering the most accurate results for saliva samples requires reliable collection methods, proper storage and handling techniques, a high-quality assay, and validated testing protocols.

Salimetrics fills the leading role of standardizing salivary testing methods that allow researchers to deliver better results and advance scientific knowledge.

What makes a Gold-Standard Assay Better?

- Consistent, Reliable, Results
- Trusted by Researchers Worldwide
- Most Published in Peer-Reviewed Scientific Literature
- Exceptional Sensitivity, Precision and Accuracy
- Short Assay Turn-Around Times

Leading Salivary Cortisol Assay Performance



Mean and standard error for 30 cortisol curves overlaid using multiple lots to demonstrate minimal lot to lot variability.

Trusted by Experts in the Scientific Fields of:

- | | |
|----------------------------|------------------------|
| • Stress | • Sports & Performance |
| • Behavior | • Wellness |
| • Sleep & Circadian Rhythm | • Aging |
| • Child Development | • General Health |
| • Environmental Health | • Inflammation |
| • Diseases & Disorders | • Obesity & Diabetes |
| • Reproductive Health | • And more... |

Better Methods by Design

- Designed Specifically for Better Results in Saliva
 - Small Sample Volume Requirements
 - 96-Well Format (Immunoassay or Kinetic)
 - High Specificity
- Single and 5-pack Configurations Available
 - Ranges Span Biologically Relevant Human Levels Found in Saliva
 - Low Average Inter- and Intra-Assay Precision Coefficients of Variation
 - Controls Included with Each Assay Kit



Assay Kits Available

Research Assay Kits	Salivary Assay Kit	Assay Time	Calibrator	Lower Limit of Sensitivity	Sample Volume
1-1902	Alpha-amylase	~30 mins	N/A	0.4 U/mL	10 µL
1-2902	Androstenedione	~3 hrs	10 - 2430 pg/mL	5 pg/mL	50 µL
1-1302	Blood Contamination	~1.5 hrs	0.08 - 6.6 mg/dL	0.08 mg/dL	25 µL
1-3002*	Cortisol	~2 hrs	0.012 - 3.0 µg/dL	0.007 µg/dL	25 µL
1-2002*	Cotinine	~2.5 hrs	0.8 - 200 ng/mL	0.15 ng/mL	20 µL
1-3302	C-Reactive Protein	~3 hrs	94 - 3000 pg/mL	10 pg/mL	15 µL
1-1202*	DHEA	~4 hrs	10.2 - 1000 pg/mL	5 pg/mL	50 µL
1-1252	DHEA-S	~2 hrs	189 - 15,300 pg/mL	43 pg/mL	100 µL
1-3702*	HS Estradiol	~3 hrs	1 - 32 pg/mL	0.1 pg/mL	100 µL
1-1802	Estriol	~3 hrs	20 - 4860 pg/mL	16 pg/mL	25 µL
1-1802*	HS Estriol	~24 hrs	5 - 1215 pg/mL	1 pg/mL	100 µL
1-3202	Estrone	~4 hrs	3.1 - 300 pg/mL	1.4 pg/mL	100 µL
1-3902	IL-1β	~4.5 hrs	3.125 - 200 pg/mL	0.37 pg/mL	20 µL
1-3602	IL-6	~4.5 hrs	1.56 - 100 pg/mL	0.07 pg/mL	60 µL
1-3402	Melatonin	~4 hrs	0.78 - 50 pg/mL	1.37 pg/mL	100 µL
1-2602	17OH Progesterone	~3 hrs	5.1 - 500 pg/mL	3 pg/mL	50 µL
1-1502*	Progesterone	~2 hrs	10 - 2430 pg/mL	5 pg/mL	50 µL
1-1602	SIgA	~4 hrs	2.5 - 600 µg/mL	2.5 µg/mL	25 µL
1-2402*	ER Testosterone	~2 hrs	6.1 - 600 pg/mL	1 pg/mL	25 µL
1-3802	Uric Acid	~30 mins	5 mg/dL	0.07 mg/dL	10 µL

* Diagnostic assay available



“Discovery through partnership, Excellence through quality”

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. Headed by our CEO and President Dr. Ariel Louwrier, StressMarq provides the research community with high-quality reagents backed with rigorous quality control data, expert scientific support, and fast international delivery.

With over 7,000 products, our growth can be attributed to the continual production of cutting edge research products. Our diverse portfolio of primary antibodies, antibody conjugates, proteins, immunoassay kits and small molecules bridges across the life sciences, including products for cancer research, cardiovascular disease, cell signaling and neuroscience. To aid research worldwide, StressMarq has an extensive network of international distributors that allow us to supply reagents to over 50 countries.

StressMarq Kit & Assay products

Detecting and quantifying cellular processes requires high quality tools. Discover StressMarq's range of assay kits (including EIAs, ELISAs, CLIAs, Enzyme Activity and Detection Kits) to help you quickly obtain accurate and reproducible results, all at a competitive price.

Featured Products:

StressMarq has developed a line of ELISA kits, all formulated with high sensitivities, ≤1 hour incubation periods, a wide assay range, AND are competitively priced.

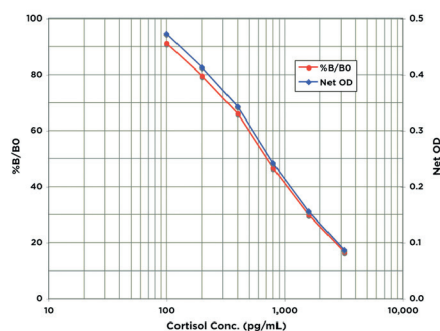
Our best seller is our DNA Damage (8-OHdG) ELISA which boasts a 0.59 ng/mL sensitivity, and numerous citations. It is also the least expensive on the market, making your research dollars go farther!

DNA Damage (8-OHdG) ELISA Kit (Catalog No. SKT-120):

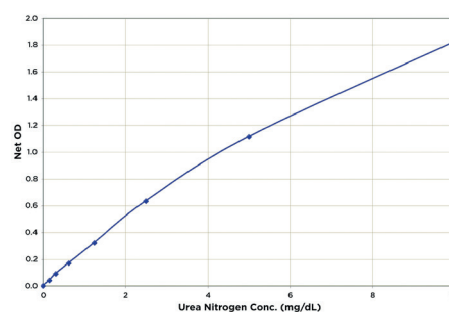
DNA Damage ELISA Kit Specifications

Purpose	Quantifies oxidative damage on DNA by measuring 8-OHdG levels
Species Reactivity	Species Independent - Detects 8-OHdG
Sample Type	Urine, Cell Culture, Plasma, Other Sample Matrices
Sensitivity	0.59 ng/mL
Assay Range	0.94—60 ng/mL
Incubation Time	60 minutes
Product Citations	54
Storage Temp	All reagents are stable as supplied at 4°C, except the standard which should be stored at -20°C
Shipping Temp	4°C

Our Cortisol EIA Kit is species independent, validated in numerous sample types, has an assay range of 100 – 3200 pg/mL and a sensitivity of 17.3 pg/mL.



Typical Standard Curve for the Cortisol EIA Kit (Enzyme Immunoassay) StressXpress® – SKT-201. Assay Type: Sandwich EIA. Detection Method: Colorimetric Assay. Assay Range: 100 – 3200 pg/mL.



Linearity was determined by taking two human urine samples diluted 1:140, one with a low diluted cortisol level of 163.9 pg/mL and one with a higher diluted level of 2,974.9 pg/mL and mixing them in the ratios given below. The measured concentrations were compared to the expected values based on the ratios used.

Cortisol EIA Kit (Catalog No. SKT-201)

DNA Damage ELISA Kit Specifications

Purpose	Quantitative colorimetric detection of cortisol
Species Reactivity	Species Independent
Sample Type	Dried Fecal Samples, EDTA Plasma, Heparin Plasma, Saliva, Serum, Tissue Culture Media, Urine
Sensitivity	17.3 pg/mL
Assay Range	100 - 3200 pg/mL
Incubation Time	90 minutes
Product Citations	2
Storage Temp	All reagents are stable as supplied at 4°C, except the standard which should be stored at -20°C
Shipping Temp	4°C

Our Blood Urea Nitrogen Detection Kit is also species independent, validated in numerous sample types, has a 30 minute incubation, and boasts a sensitivity of 0.042 mg/dL. Setting it apart from others on the market, urease enzyme is included to further study the urea signal.

Blood Urea Nitrogen Detection Kit (Catalog No. SKT-213)

DNA Damage ELISA Kit Specifications

Purpose	Quantitatively measures urea nitrogen in a variety of samples
Species Reactivity	Species Independent
Sample Type	Plasma, Saliva, Serum, Tissue Culture Media, Urine
Sensitivity	0.042 mg/dL
Assay Range	0 – 10 mg/dL BUN
Incubation Time	30 minutes
Product Citations	1
Storage Temp	All reagents are stable as supplied at 4°C, except the standard which should be stored at -20°C
Shipping Temp	4°C

System Biosciences (SBI) is a leading provider of innovative products and services for exosome research, lentiviral technology and CRISPR/Cas9 studies. 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.

PUTTING THE POWER OF EXOSOMES INTO YOUR HANDS

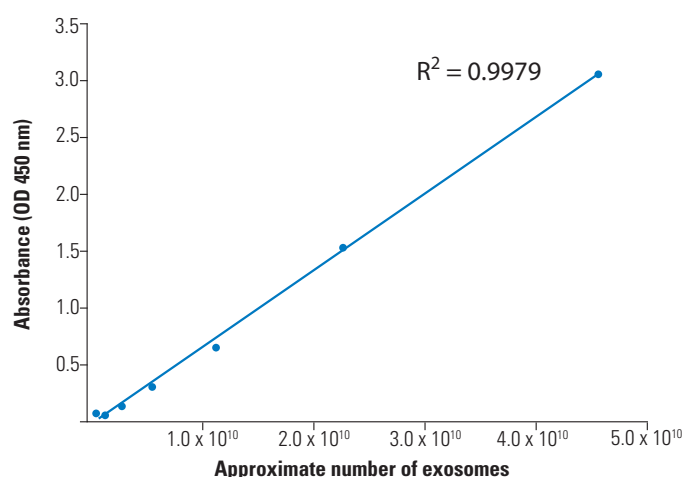
In 2009, the team at System Biosciences (SBI) recognized the great potential of exosomes and developed the first commercial exosome isolation kit. In the intervening years, we've worked with the growing exosome community to refine and enhance our products and expand our offerings. We are proud to support the life science community through an extensive portfolio of exosome research and engineering tools, backed by the largest number of peer-reviewed publications of any exosome reagent supplier in the world. With our ever-growing family of high-quality exosome products and services, SBI is harnessing the latest technological innovations and transforming them into powerful tools that accelerate your exosome-based discoveries.

ExoELISA and ExoELISA-ULTRA Kits

Our standard ExoELISA™ kits—available for detection of either CD63, CD9, or CD81—are for conducting direct Enzyme-Linked ImmunoSorbent Assays (ELISA). All kits come with the standards needed for calculating exosome concentration.

Improving on our popular ExoELISA Kits, the ExoELISA-ULTRA kits increase the sensitivity of exosome detection—as low as 1 µg protein equivalent—while shortening the total assay time to only 4 hours.

Currently offered in two formats, one for detection of CD63 and one for CD81, ExoELISA-ULTRA kits are based on an ultra-sensitive, direct capture, colorimetric ELISA assay that is compatible with exosomes derived from most biofluids. (Catalogue number SBI-EXOEL-96P-1, SBI-EXEL-ULTRA-CD81-1, SBI-EXEL-ULTRA-CD63-1)



⚡ Calibration curve for the number of exosomes detected using the ExoELISA-ULTRA Complete Kit (CD63 Detection) shows that ExoELISA-ULTRA is quantitative down to low amounts of exosomes. (Catalogue number SBI-EXEL-ULTRA-CD63-1)

	ExoELISA-ULTRA	ExoELISA	EXOCET	FluoroCet
Use	Fast and sensitive antibody-based quantitation	Sensitive quantitation when time and sample are not limiting	Fast quantitation with moderate sample input	The most sensitive quantitation with very low sample input
Detection Method	Antibody	Antibody	Enzymatic	Enzymatic
Quantitation chemistry	Enzymatic (HRP)	Enzymatic (HRP)	Colorimetric	Fluorescence
Protocol time	4 hours	24 hours	20 min	60 min
Input sample amount	1-200 µg	>500 µg	50 µg	<1 µg

EXOCET Rapid Exosome Quantitation Assay

Achieve exosome quantitation in as little as twenty minutes with EXOCET. The EXOCET assay directly measures Acetyl-CoA Acetylcholinesterase (AChE) activity, known to be enriched within exosomes. The EXOCET assay is an enzymatic, colorimetric assay read at OD405, and each kit includes a standard curve, enabling quantitation of the exosomes present.

(Catalogue number SBI-EXOCET96A-1)

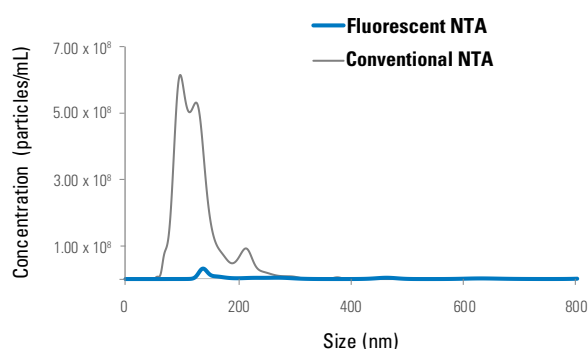
FluoroCet Exosome Quantitation Assay

Enabling highly sensitive quantitation of exosomes in only 60 minutes, the FluoroCet Kit takes our popular EXOCET assay and increases the sensitivity over 30-fold. Fully compatible with a variety of exosome isolation methods (ExoQuick family, UC, ultrafiltration, and immunoaffinity capture), FluoroCet is great for quantifying exosomes when samples are limiting.

(Catalogue number SBI-FCET96A-1)

ExoGlow-NTA Fluorescent Labeling Kits

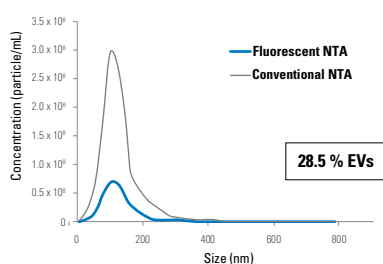
Gain more accurate insight into your exosome sample with ExoGlow™-NTA Fluorescent Labeling Kits that detect only intact extracellular vesicles. The ExoGlow-NTA Fluorescent Labeling Kits utilize the fluorescence capabilities of Nanoparticle Tracking Analysis (NTA) instrumentation with a proprietary fluorescent dye that works by reacting specifically and efficiently to the surface of intact vesicles. Membrane fragments, protein aggregates, and other background particles do not activate the ExoGlow-NTA dye, resulting in exclusion of these species from fluorescent NTA (fNTA). Thus, with the ExoGlow-NTA Kits, the data delivered by NTA more accurately represents the EV populations in your sample rather than all particles, as is typically reported by conventional (nonfluorescent) NTA.



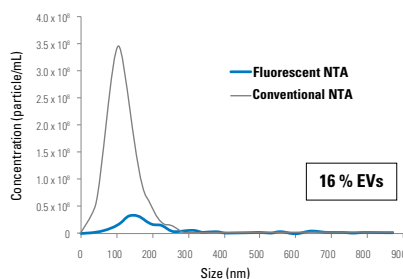
⚡ ExoGlow-NTA exhibits undetectable background signal. Conventional NTA and Fluorescent NTA of ExoGlow-NTA dye in the absence of EVs shows bias-free undetectable autofluorescence, based on particle counts.
(Catalogue number SBI-EXONTA200A-1, SBI-EXONTA110A-1)

- Only commercially available kit that labels EVs for fluorescent NTA quantitation
- Delivers high signal-to-noise ratio with a proprietary dye that specifically binds EVs
- Validated using common EV isolation methods including ExoQuick, UC, and column-based methods
- Optimized for speed—only 20 minutes from sample isolation to analysis
- Compatible with Malvern Panalytical NanoSight and Particle Metrix ZetaView®

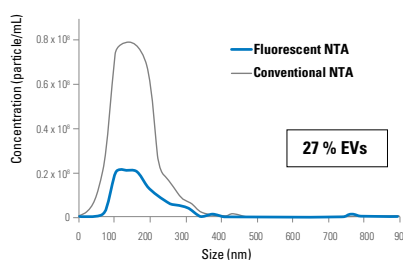
ExoQuick



Ultracentrifugation + Wash



Column-based



⚡ ExoGlow-NTA demonstrates that conventional NTA overestimates EV concentration in samples irrespective of EV isolation method. Representative data comparing conventional and fluorescent NTA for EVs isolated using ExoQuick (10 µg serum protein), Top left; UC and wash (1 µg serum protein), Top Right; or column-based (1 µg serum protein), Bottom Right, shows how much of the conventional NTA signal is due to non-EV particles.

(Catalogue number SBI-EQULTRA-20A-1, SBI-EQULTRA-20TC-1)

Immunofluorescence Assays & Kits

VectaFluor™ Ready-To-Use Antibody Reagents

As investigators push research boundaries and require more sensitive, photo-stable fluorescent products, we have met this demand by developing a range of DyLight® dye-conjugated secondary antibodies and novel detection kits that we have named VectaFluor™ reagents. The VectaFluor™ products are presented as pre-diluted, ready-to-use (R.T.U.) solutions that reduce optimization requirements at the researchers' end, thereby saving time and minimizing potential dilution errors which assists with greater consistency in collaborative efforts across lab environments.

Maximum performance is achieved when these VectaFluor™ reagents are used in combination with our VECTASHIELD® Antifade Mounting Media.

VectaFluor™ R.T.U. Antibody Kits

The VectaFluor™ Ready-to-Use (R.T.U.) DyLight® dye-conjugated secondary antibodies offer maximum convenience for fluorescence staining of cells and tissues. These affinity-purified, highly cross-adsorbed secondary antibodies are conjugated to DyLight® dyes in a manner that ensures the maximum degree of labeling without compromising antibody affinity or specificity. DyLight® dyes offer advantages such as bright fluorescence, excellent photostability and pH independence.

VectaFluor™ R.T.U. Antibody Reagents are suitable for use with rabbit, mouse, goat, sheep, and bovine IgG primary antibodies and are supplied as ready-to-use, pre diluted, stabilized solutions (15ml) with ready-to-use 2.5% normal horse serum (15ml) for blocking.

VectaFluor™ Duet Immunofluorescence Double Labeling Kits

Apply two colors in one step using the VectaFluor™ Duet IF Double Labeling Kits. These kits save time and effort in double-labeling immunofluorescence (IF) protocols, which can be long and tedious. The kits are configured to detect a mouse and a rabbit primary antibody with green and red fluorescence in one step.

- Two colors, one step
- Ready-to-use (R.T.U.)
- Robust cocktail formulation of DyLight® anti-mouse IgG and DyLight® anti-rabbit IgG

Two kit configurations are available:

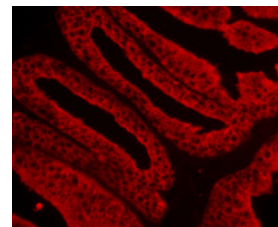
Selection of a VectaFluor™ Duet IF Double Labeling Kit format is based on individual preference; however, certain parameters should be considered. For example, prevalence of the respective target antigens within a tissue section, and whether the more abundant antigen will be viewed by a green or red signal are important factors. Also consider possible overlap or co-localization of the antigens and which antibody combination would produce optimal results.

Product	Catalog Number
VectaFluor™ Duet IF Double Labeling Kit - DyLight® 488 Anti-Rabbit (green) - DyLight® 594 Anti-Mouse (red)	DK-8818
VectaFluor™ Duet IF Double Labeling Kit - DyLight® 594 Anti-Rabbit (red) - DyLight® 488 Anti-Mouse (green)	DK-8828

Product	DyLight® 488 (Green)	DyLight® 594 (Red)
VectaFluor™ Anti-Rabbit IgG, made in horse	DI-1788	DI-1794
VectaFluor™ Anti-Mouse IgG, made in horse		DI-2794

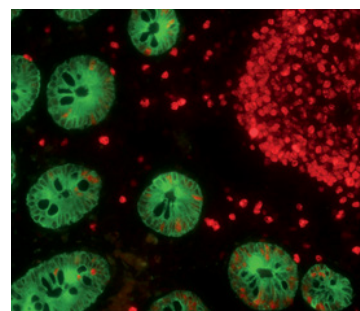
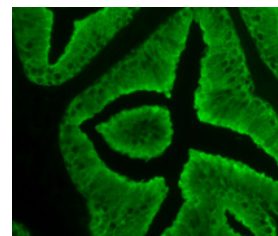
DyLight® 594 Kits

Excitation: 593 nm
Emission: 618 nm
Color: Red

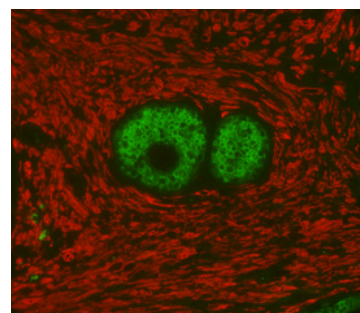


DyLight® 488 Kits

Excitation: 493 nm
Emission: 518 nm
Color: Green



Colon: Mouse Anti-Cytokeratin (AE1/AE3) and Rabbit Anti-Ki67 detected simultaneously with VectaFluor™ Duet IF Double Labeling Kit, DyLight® 488 Anti-Mouse (green)/DyLight® 594 Anti-Rabbit (red). Mounted in VECTASHIELD® HardSet™ Mounting Medium.



Prostate: Rabbit Anti-PSA mAb and Mouse Anti-Smooth Muscle Actin detected simultaneously with VectaFluor™ Duet IF Double Labeling Kit, DyLight® 488 Anti-Rabbit (green)/DyLight® 594 Anti-Mouse (red). Mounted in VECTASHIELD® HardSet™ Mounting Medium.

Vector® TrueVIEW™ Autofluorescence Quenching Kit

Vector® TrueVIEW™ Autofluorescence Quenching Kit provides a novel way to remove unwanted fluorescence in tissue sections due to aldehyde fixation, red blood cells, and structural elements such as collagen and elastin. This unique formulation binds and effectively quenches the autofluorescent elements in even the most problematic tissues, such as kidney, spleen and pancreas.

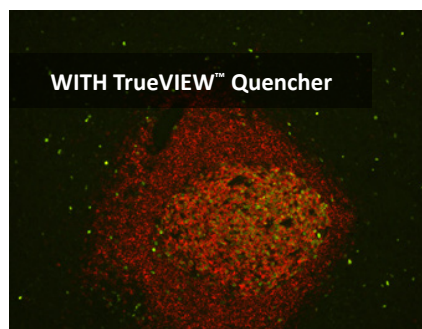
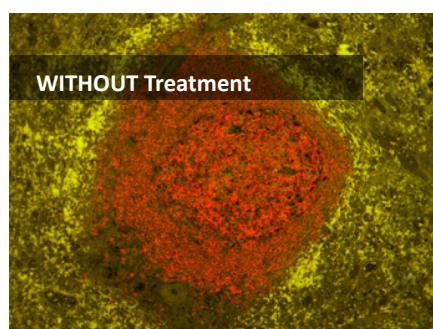
The use of Vector® TrueVIEW™ Quenching reagent leads to significant enhancement in overall signal-to-noise in most immunofluorescence assays.

Vector® TrueVIEW™ Quenching reagent is a unique approach to diminish unwanted autofluorescence from non-lipofuscin sources, that retains the specific fluorescent antigen staining. The quenching action of the kit reagents therefore, provides the investigator with a clear, unambiguous, “true view” visualization of the intended target.

Product	Catalog Number
Vector® TrueVIEW™ Autofluorescence Quenching Kit	SP-8400

Why TrueVIEW™ Quencher?

- > Specific reduction of autofluorescence from aldehyde fixation
- > Improved signal-to-noise ratio
- > Effective in even the most challenging tissues
- > Easy-to-use, one-step method
- > Quick 5 min incubation
- > Compatible with a wide selection of fluorophores
- > Compatible with standard epifluorescence and confocal laser microscopes



Adjacent human spleen sections (FFPE) stained using mouse anti-CD20 (red) and rabbit anti-Ki67 (green) primary antibodies detected with VectaFluor Duet Kit (DK-8818). Note significant reduction of autofluorescence in the treated section (right) with retention of well-defined, specific signal in both red.

Immunohistochemistry Assays and Kits

Vector® WestVision™ Western Blot Detection *Sensitive, Convenient, Economical*

WestVision™ Peroxidase Polymer antibody conjugates bind primary antibodies of mouse or rabbit origin with high affinity, producing sharp signal and low background in western blot detection. WestVision™ Polymer Reagents consist of unique micropolymers of highly active peroxidase (HRP) enzyme attached to highly cross-adsorbed, affinity purified secondary antibodies. This proprietary micropolymer technology allows a higher density of HRP enzymes to access a target with minimal interference. The result is excellent signal-to-noise ratio in western blot detection.

Product	Unit Size	Cat Number
WestVision™ HRP Polymer, Anti-Rabbit IgG	0.8 ml	WB-1000
WestVision™ HRP Polymer, Anti-Mouse IgG	0.8 ml	WB-2000
WestVision™ Block and Diluent	500 ml	SP-7000
10x Casein Solution	250 ml	SP-5020



AAT Bioquest is a US-based bioreagents company that specializes in assay technologies. AAT Bioquest's reliable, high performance products enable life science researchers to better understand biochemistry, immunology, cell biology and molecular biology. Their catalog of over 5000 items includes product lines such as Fluo-8®, Cal-520®, Cell Meter™, Amplite™, CytoTrace™ and CytoTell™, brands that have garnered recognition and praise in the life science research community.



Abnova is the world's largest antibody manufacturer. We have the capacity of generating 300 mouse monoclonal antibodies and 200 rabbit polyclonal antibodies per month. Rather than the traditional method of antibody production, Abnova is taking a genomic/proteomic approach to antibody development. Our goal is to have at least one antibody to every human expressed gene in human genome. We manufacture all our products, recombinant proteins and antibodies in our state-of-the-art production and SPF animal facilities. We also have multiple clones for the monoclonal antibody, and their access is available to partners and collaborators from the academic institutions and industry. Immunohistochemistry plays a pivotal role in the characterization of protein expression in the tissue. Notably, the availability of a large collection of validated antibodies is crucial to the successful screening and validation process. Abnova has opened up this bottleneck by building the largest antibody library for immunohistochemistry, tissue microarray and clinical applications.



CUSABIO is a manufacturer of ELISA kits, antibodies, proteins and related reagents. CUSABIO provides 60,000+ validated antibodies, 6000+ recombinant proteins, 580+ cytokines and thousands of ELISA kits to a global customer base.

CUSABIO's goal is to provide the highest quality ELISA kits and services at a reasonable price, allowing our customers to focus their time and resources on advancing their own research. For that reason, our strict manufacturing and quality control standards allow us to offer the highest levels of performance and consistency with each ELISA kit you run. CUSABIO offers a broad range of ELISA kits covering over 9,000 different assay targets in many different research areas, including autoimmunity, biochemical, cardiovascular, immunology, metabolism, cell biology and cancer.



Elabscience specializes in immunodiagnostic technology for life science community. We have complete platform for R&D and manufacture. At the same time, we have in house QC for every product, endeavouring to keep your experiment results more consistent and precise.

Elabscience offers over 3000+ highly sensitive and specific ELISA test kits that can solve your immunoassay problem. Elabscience ELISA test kits are complete, fully validated and ready-to-use for a wide range of targets and species. We provide either the sandwich ELISA method or competitive ELISA method relevant for the kit. Elabscience offer a wide-range of sensitive and high-quality Chemiluminescent assay kits which can be used for detection of target proteins from human, mouse and rat samples.



Since 1998, we have provided the research community with proteomic solutions and applications by offering a comprehensive catalog of products and services. To date, GenWay scientists have produced thousands of proteins and antibodies in our San Diego facility. Our company strives to provide the best value of reagents to the research community.

GenWay offers a wide selection of ELISA kits that have been validated for exceptional quality and reproducibility. Our product listing includes ELISA test kits for Human, Mouse, Rat, Bovine, Equine, Canine, Feline, Ovine, Swine and Chicken specific targets. ELISA kits combines the specificity of antibodies with the sensitivity of simple enzyme assays, by using antibodies or antigens coupled to an easily assayed enzyme that possesses a high turnover number. ELISA can provide a useful measurement of antigen or antibody concentration.



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.

ELISA kits are a quick, convenient, and accurate research tool for the detection and quantitation of targets of interest in cultures and samples. LSBio offers ELISA kits for the detection of hundreds of different proteins and molecules including cytokines, growth factors and receptors. We offer multiple assay formats including traditional sandwich ELISA kits, competitive EIA kits, cell-based ELISA Kits, and DNA-binding ELISA kits, as well as phospho-specific detection for many targets. Each kit is rigorously tested to ensure precision, accuracy, sensitivity, specificity, and reproducibility.



Founded by MIT researchers in 2007, Sino Biological Inc. is a leading biological reagents manufacturer, offering a comprehensive set of premium quality reagents, all of which are produced in-house and cover a broad range of life science research and drug development. Sino Biological is dedicated to research and development of biological pharmaceuticals such as monoclonal antibodies, recombinant protein drugs, virus vaccines and rapid diagnosis.

Quality at the best price!

4 pipette bundle pack :

(0.1 – 2 µl / 2 – 20 µl / 20 – 200 µl / 100 – 1000 µl)

Article no: ABM-B254

€299

The Single Channel Pipettors are affordable lightweight instruments which offer high precision and accuracy:

- Thumb-friendly spring system
- Colour-coded labeling system to distinguish capacity volume ranges
- Easy calibration without the need of special tools
- Comfortable and lightweight to reduce hand strain
- Able to pipette liquids of varying densities



BIOZOL Diagnostica Vertrieb GmbH
Obere Hauptstrasse 10b
85386 Eching, Germany

Telephone: +49-89-37 99 666-6
Fax: +49-89-37 99 666-99
E-Mail: info@biozol.de

Freecall Telefon 08000-BIOZOL
(i.e. 0800-024 69 65)

BIOZOL
FIT FOR SCIENCE

www.biozol.de