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ELISA KIT

optimize your research

**Cytokines
Cardiovascular
Ig Isotyping
Inflammation
Metabolism
B Cells**

www.bt-laboratory.com



About Korain

Shanghai Korain Biotech Company

Founded in 2010. As an creator in reagents and tools for life science, Korainbio provide researchers with 10,000 antibodies, 10,000 ELISA kits and 1000+ proteins. With our professional team, we aim to be a leading provider with world-class level for the researchers all over the world. Our products line covers a set of research areas including immunology, neuroscience, cancer, kinases, phosphatases and cell biology.

Bioassay Technology Laboratory™ (BT Lab) as a leading brand of Korain biotech company focused on helping researchers to optimize life science work and serves as a provider of test and developing services, including elisa tests, WB test and antigen development. Our strategic focus has been on the development of enabling technologies in the research, development, manufacture and marketing of innovative immuno products and services based on molecular technologies. Now BT Lab is growing stronger.

What We Provide

- Product datasheet, product image, MSDS, publication
- Order by e-mail or phone
- Quality guarantee with ISO and CE
- Within 36 hours to your inquiry
- Support by professional team
- Ship to more than 100+ countries
- Special packaging according to your request

What We Aim to

- Optimize your life science research with our high quality product
- Build a friendship with every single customer
- Devoted ourselves to providing researchers with professional support

Features

- Wide variety of species such as human, mice, rat, rabbit, goat, canine
- Highly sensitive and specific
- Fast and inexpensive
- Quality guarantee

Validation testing for BT Lab's all quantikine ELISA kit includes intra- and inter-assay precision, assay linearity and recovery, as well as kit stability and assay drift. ELISA kit includes intra- and inter-assay precision, assay linearity and recovery, as well as kit stability and assay drift.

Application area

Cancer
Cytokine & Growth factor
Immunology
Hematology
Metabolism
Cardiovascular
Hormone
Neuroscience
Signal Transduction

Enzyme-Linked Immunology Assay

The enzyme-linked immunosorbent assay (ELISA) is a commonly used to measure antibodies, antigens, proteins and glycoproteins in biological samples. In the most simple form of an ELISA, antigens from the sample are attached to a surface. Then, a matching antibody is applied over the surface so it can bind to the antigen. This antibody is linked to an enzyme. In the final step, a substance containing the enzyme's substrate is added. The subsequent reaction produces a detectable signal, most commonly a color change in the substrate.

Streptavidin HRP

Significant non-specific binding can be prevented by streptavidin and increase the stability of binding biotinylated antibody.

Biotinylated Detection Antibody

Reduce interference from residual biotin in sample and binds to streptavidin with high affinity.

Without Diluting Sample

- Save assay time
- Wide detection range
- Reducing non-specific interactions between the sample matrix proteins

Component

Standard solution
Pre-coated ELISA plate
Standard diluent
Streptavidin-HRP
Stop solution
Substrate solution A
Substrate solution B
Wash buffer concentrate (25x)
Biotinylated antibody

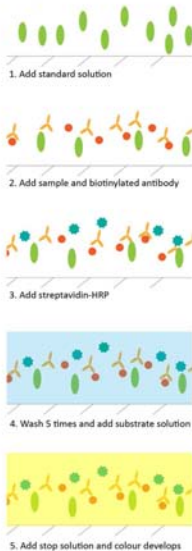
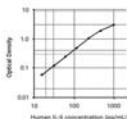


Fig. Procedure of ELISA

Wider optimal range and excellent sensitivity

Expert a wide, optimal dynamic range of the linear standard curve with our ELISA kit. Sensitivity, defined as the minimum detectable concentration for a protein, is calculated as two standard deviations above the zero from multiple experiments. Refer to the manual to find the sensitivity for each ELISA kit.



Different types of ELISA formats

Sandwich Kit

Sandwich ELISA is used to detect sample antigen. Matched antibody pairs can be used as the capture and detection antibodies in sandwich ELISA system. The capture antibody is a monoclonal antibody that only binds a single epitope on an antigen. This increases the specificity and reduces background noises as well. A polyclonal antibody is used as the capture antibody to pull down as much of the antigen as possible. The amount of color produced is proportional to the amount of target antigen in the sample. It is suitable for complex samples.

Competitive Kit

In a competitive ELISA assay, the sample antigen competes with a reference antigen for binding to a specific amount of labeled antibody. The reference antibody is pre-coated on a multi-well plate. The labeled antigen and the sample antigen (unlabeled) compete for binding to the primary antibody. The lower the amount of antigen in the sample, the stronger the signal due to more labeled antigen in the well. It is suitable for detecting small antigens.

Components

- Pre-coated plate
- Standard (lyophilized)
- Standard/Sample Diluent
- Biotinylated antigen (lyophilized)
- Concentrated avidin-HRP (lyophilized)
- Biotinylated antigen/Avidin HRP diluent
- Substrate solution A
- Substrate solution B
- Stop solution
- Wash buffer concentrate (25x)

Qualitative Kit

Qualitative results provide a simple positive or negative result for a sample. The cutoff between positive and negative is determined by the analyst and may be statistical. Two or three times the standard deviation is often used to distinguish positive from negative samples.

Components

- Pre-coated plate
- Positive control
- Negative control
- Avidin-HRP conjugated
- Sample diluent
- Substrate solution A
- Substrate solution B
- Stop solution
- Wash buffer concentrate (25x)

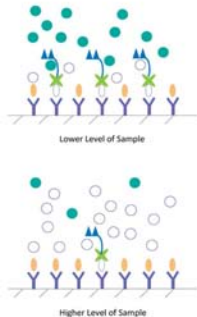


Fig. 1. Overview of competitive ELISA

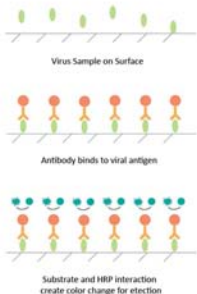
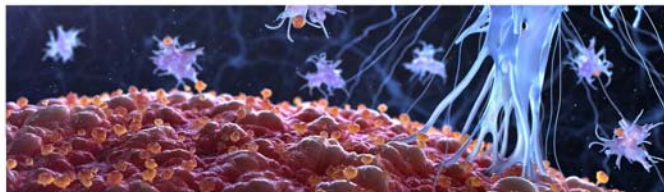


Fig. 2. Overview of qualitative ELISA

Featured ELISA Kits coverage by application and species

Cytokine	Product CAT#	Chemokine	Product CAT#	Growth Factor	Product CAT#	Immunoglobulin	Product CAT#
IL-2	E0123Ra	CXCL9/MIG	E0049Hu, E0102Po	EGF	E0144Hu, E0152Ra, E00160Po, E0144Po, E0701Mo	IgE	E0188Hu
IL-3	E0131Ra	CxCL10/IP-10	E3800Hu, E1188Ra	EPO	E1029Hu, E0293Ra, E0003Mo, E0209Ca, E0062Pf	IgM	E0187Hu
IL-4	E0092Hu, E0093Hu, E0133Ra	MCP-1/CCL2	E4830Hu, E1707Mo, E0205Rb	CSF	E0166Hu	IgG	E0186Hu, E0451Mo, E0453Ra, E0026Gp
IL-6	E0135Ra	CCL22/MDC	E4728Hu, E1296Ra	GM-CSF	E0107Hu, E0429Ra, E0448Po, E0038Mo, E0134Ca	IgG1	E2038Hu, E1217Ra, E1629Mo, E0001Ha
IL-10	E0102Hu, E0108Ra	MIP-1 alpha	E0139Hu	FGF	E3111Hu, E1096Ra, E0191Rb, E00745h, E0175Ca	IgG2	E2039Hu, E1218Ra, E1790Mo
IL-17A	E0047Hu, E0118Ra, E1143Mo	MDC/CCL3	E4281Hu	BMP	E1480Hu, E1909Hu, E1990Hu, E0266Ra, E1688Ra, E0232Ca	IgG3	E2040Hu, E1753Ra, E1772Mo
IL-22	E0038Hu, E1473Ra, E1151Mo, E0183Rb, E0127Ca	CX3CL1	E0109Hu	BONF	E1302Hu, E0476Ra, E0013Mo, E0228Rb, E0113Pf, E0091HO	IgA	E0189Hu, E1789Mo, E0451Ra
IL-33	E0938Ra, E1182Mo	CCL17/TARC	E3724Hu, E1295Ra, E1655Mo	HDGF	E3664Hu	IgD	E0174Hu, E1752Ra, E1752Ra
IL-1 alpha	E0095Hu, E0118Ra, E0118Ra	MIP-2	E0328Hu, E0366Ra, E0647Mo	HGF	E0106Hu, E0251Ra, E0675Mo, E0206Po	IgG2a	E1670Ra, E1488Mo, E1670Ra
IL-1 beta	E0143Hu, E0192Mo	CXCL11/TAC	E4731Hu, E1186Ra, E01045h	IGF	E0103Hu, E0709Ra, E0284Po, E00378Po, E0144Rb, E0241Ch	IgG4	E1754Ra
IFN-alpha	E0076Hu, E0087Ra, E0000Po			TGFB1	E1688Ra, E0058HO		
IFN-gamma	E0105Hu, E0103Ra			TGFB2	E1689Ra		
TNF-alpha	E0082Hu, E0764Ra, E0065Rb, E0025Ca			PDGFA	E0439Hu, E0891Ra, E1129Mo, E0031Rb, E0068Bo		
EGFR	E0313Hu, E0145Po, E0993Mo			PDGFB	E2118Hu		
TGF	E3051Hu, E0777Ra, E0778Ra, E0376Po, E0133Rb, E0660Mo			TPO	E1031Hu, E0690Ra, E0113Mo		
GM-CSF	E0107Hu, E0429Ra, E0038Mo, E0134Ca						

BT Lab has developed ELISA panels for use in a wide variety of research field in the scientific community and assays are available in human, mouse, rat, canine, sheep and other species (over 20 species). Additionally we are constantly expanding our catalog with new assay content, please send your request to our E-mail: save@bt-laboratory.com



Publication Using Our ELISA Kit

- E0921Hu, Human VASPIN ELISA
Obesity Surgery, 03 June 2018
- E1012Hu, Human L-10 ELISA
Iranian Red Crescent Medical Journal: December 01, 2016, 18 (12); e44311
- E0918Hu, Human SOD ELISA
LBPAS, March, 2015, 4(3): 1146-1156
- E0017Fi, Fish MDA ELISA Kit
International Journal of Biosciences, Vol. 5, No. 11, p. 86-91, 2014
- E0611Mo, Rat Vitamin B6 ELISA
THE JOURNAL OF TROPICAL LIFE SCIENCE, VOL. 5, NO. 2, pp. 60-64, May, 2015
- E0724Ra, Rat AChE ELISA
Environmental Toxicology and Pharmacology, Volume 59, April 2018, Pages 17-23
- E0010Hu, Human Insulin ELISA
Pharmacognosy Magazine. Year: 2018. Volume : 14. Issue : 55. Page : 36-39
- E1481Mo, Mouse IL-8 ELISA
Experimental Dermatology, Volume 25, Issue 12, December 2016, Pages 956-961
- E0010Hu, Human Insulin ELISA
European Journal of Nutrition, March 2018, Volume 57, Issue 2, Pages 731-740
- E0167Ra, Rat hs-CRP ELISA
The Journal of Romanian Society of Diabetes Nutrition and Metabolic Diseases, Volume 25: Issue 1, 04 Apr 2018
- E0089Hu, Human IL-8 ELISA
Transplantation Proceedings, Volume 49, Issue 3, April 2017, Pages 448-453
- E0652Mo, Mouse Leptin ELISA
Current Topics in Nutraceutical Research. Nov 2016, Vol. 14 Issue 4, p265-272. 8p.
- E0936Hu, Human MMP-9 ELISA
Biomolecules 2019, 9(2), 62
- E0465Ra, Rat eNOS ELISA
Annals of Hepatology 2018; 17 (6): 980-991
- E1539Hu, Human Vitamin B6 ELISA
Molecular and Cellular Biomedical Sciences, Vol.3 No.1, March 2019, p.42-7
- E0090Hu, Human IL-6 ELISA
Journal of Renal Nutrition, Volume 24, Issue 3, May 2014, Pages 177-185
- E0023Rb, Rabbit EGF ELISA
International Journal of Surgery, Volume 12, Issue 8, August 2014, Pages 843-847
- E0740Ra, Rat iNOS ELISA
Biochemical Pharmacology, Volume 96, Issue 1, 1 July 2015, Pages 20-29
- E1451Hu, Human Apolipoprotein E ELISA
Iran J Pediatr. 2014 Oct; 24(5) : 623-629
- E0118Po, Porcine Interleukin 2 ELISA
Veterinary Immunology and Immunopathology Volume 156, Issues 3-4, 15 December 2013, Pages 176-181
- E1153Ra, Rat β -catenin ELISA
Chemo-Biological Interactions Volume 278, 25 December 2017, Pages 84-91
- E2014Hu, Human Apelin ELISA
Journal of Nutrition Volume 119, Issue 4 28 February 2018, pp. 398-406
- E2075Bo, Bovine Glycated Albumin ELISA
Molecules 2014, 19(11), 18828-18849
- E1711Hu, Human p53/TP53 ELISA
Journal of Contemporary Medical Sciences, [S.I.], v. 4, n. 3, sep. 2018. ISSN 2413-0516.
- E0009Ca, Canine Prolactin ELISA
Comparative Clinical Pathology, September 2017, Volume 26, Issue 5, pp 1099-1103
- E0099Hu, Human Interleukin 12 ELISA
Clinical Medicine and Diagnostics. 2018; 8(1): 7-13
- E2100Ra, Rat PDK-4 ELISA
Biomedicine & Pharmacotherapy, Feb 2019, Vol.110, p9-67
- E1302Hu, BDNF ELISA
Physiology & Behavior Volume 199, 1 February 2019, Pages 84-87
- E1938Hu, Human PTX3 ELISA
Clinical Nutrition, Volume 37, Issue 3, June 2018, Pages 965-969
- E0940Ra, Rat VEGF-A ELISA
Research in Veterinary Science, Volume 114, October 2017, Pages 378-387

More publications citing our products, please visit page <http://www.bt-laboratory.com/support/references/>

ELISA Development Service

- Custom ELISA kit production for human or animal with specifications such as range, sensitivity
- Testing of kits and assay components
- Detection of small molecules
- ELISA development and assay optimization

Regarding timeline and costs associated with every single service, please contact us for a more detailed estimate for your project.

High Accuracy and Dilution Linearity

Dilutions should always derive the same final analyte concentration for a sample. Interfering factors can compromise assay linearity. BT Lab's kit is designed to overcome these effects. We generate a dilution series using kit diluents across the dynamic range of the assay for each validated sample type. The ability to accurately measure a large number of a standard spiked into sample matrices describes the recovery characteristics of an ELISA. We collect recovery data for all BT Lab kits, typically tested in serum, plasma, and cell culture supernatant. BT Lab kits also provide linearity results, indicating that at different dilutions of a standard, the results are linear with the expected concentration.

Frequently Asked Questions

Can I use pleuroperitoneal fluid and cerebrospinal fluid with BT Lab's kit?

Yes, sandwich kit is for the accurate quantitative detection in serum, plasma, cell culture supernates, cell lysates, tissue homogenates, bronchoalveolar lavage fluid/synovial fluid, pleuroperitoneal fluid and cerebrospinal fluid and other body fluid. If you're not sure for the sample you're going to test, you can send your question to our customer service by E-mail: support@bt-laboratory.com

What is the shelf-life of BT Lab ELISA kit?

The shelf life of BT Lab's ELISA kit is for one year from the date of manufacture. Please store the kit at 2-8°C for six months. For one year store at -20°C. If individual reagents are opened it is recommended that the kit be used within one month. Substrate solution B should be kept in the dark. Avoid repeated thaw cycles.

When can I receive it after I place an order?

Order will generally be shipped within 24 hrs on acceptance. If the item is out of stock, we will notify you via email or telephone in 24 hrs. All the items are shipped via DHL/FedEX at our rate. If you have your own DHL/FedEX account, please advise when placing an order. Ships via DHL/FedEx express standard overnight at ambient temperature, Monday through Friday. Orders received late Friday until Sunday will ship the following Monday.

Can I cite BT Lab's product if I publish a paper?

Yes, if you publish a paper which cites BT Lab's product as the source of one of your materials, please email us a copy at Word/PDF format of your paper for transparency and you will get reward.

Quality Control



Contact Us



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