



ELK Biotechnology



ELK(Wuhan)Biotechnology CO.,Ltd.

Suitable for company promotion, product introduction, development plan, business financing, etc. product introduction, development plan, business financing, etc.



<http://www.elkbiotech.com>



TEL

86-027-59760950



ELK Biotechnology

CONTANTS

1 Company Profile

3 Product introduction

2 Company culture

4 Planning and the future



ELK Biotechnology

Company culture



ELK (Wuhan) Biotechnology CO.,Ltd

ELK Biotechnology is located in Optics Valley Bio-city, a national bio-industry base in Wuhan. Founded in 2013, ELK Biotechnology is a high-tech biological enterprise specializing in life science and immune research. We have a laboratory of 3,000 square meters, with independent cell culture room and SPF animal room, specializing in the introduction and research and development of morphological pathology, cell biology, molecular biology, protein immunology, and model animal related products. Since the establishment of the company, team members have participated in a number of medical biology research projects and the National Natural Science Foundation of China. And establish cooperative relations with many enterprises and scientific research institutions across the country to provide the best quality and most efficient services and products for every scientific researcher.



Reagent manufacturers with R&D and production capabilities

ELK Biotechnology specialized in the production of ELISA kits, antibodies and molecular biology reagents (DNA, RNA extraction kits and PCR-related reagents). Has about 8500+ ELISA kits, 11000+ antibodies, 60+ molecular biology reagents and cell experiment related products.



Reliable supply

The core raw materials of the kit, finished antibody pairs, and standard recombinant proteins are all from imported first-line brands



High quality and stability

Each batch of kits goes through layers of QC quality inspection to ensure that the kits received by customers have the best sensitivity and specificity



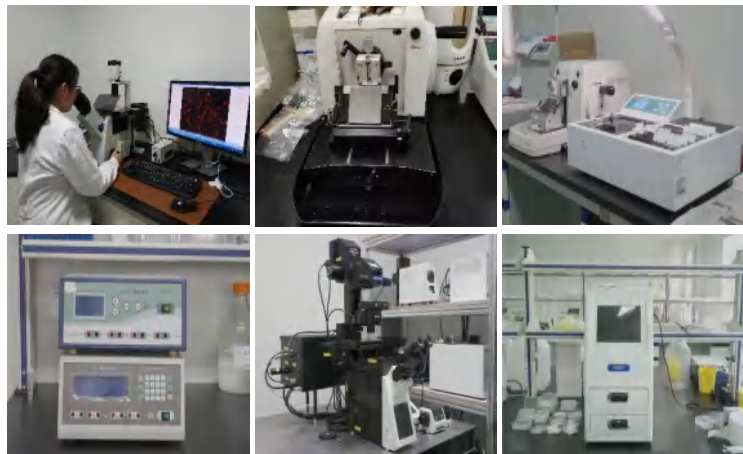
Rapid development

Relying on the company's complete R & D platform, through the integration of upstream and downstream supply chains, it currently provides more than 20,000 products related to immunology and molecular biology.



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Labtortory show



Company introduction

1

Immunology Platform

Basic immunology research and clinical application model research to systematically expound the molecular regulation mechanism of immune response. The institute will mainly carry out a series of researches on infection immunity and inflammation, autoimmune disease and inflammation, and the remodeling and regulation of inflammatory tumor microenvironment .

2

Molecular Biology Platform

At the microscopic and molecular levels of biology, we aim to understand the interactions between different systems in the cell, including the interactions between DNA, RNA, and proteins, and how these interactions are regulated.



Company introduction



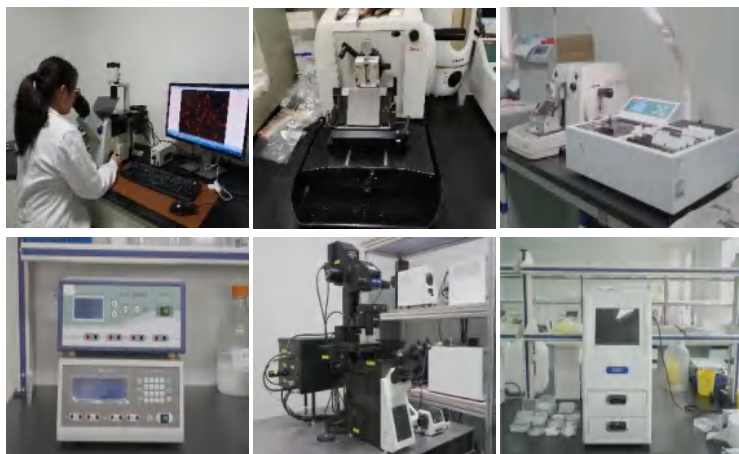
Pathology Platform



Animal model platform



Cell Biology Platform





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Company introduction



Molecular Biology

- Nucleic acid extraction
- RT-PCR
- Molecular cloning
- SNP typing
- RNA interference
- Molecular hybridization
- DNA methylation
- RACE
- sgRNA design
- Crispr/Cas9



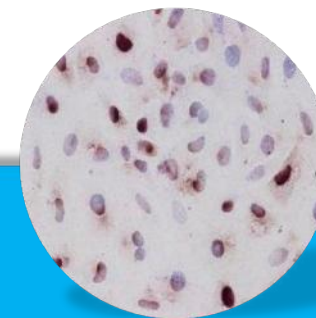
Cell Biology

- Cell culture
- Flow cytometry
- Cell proliferation activity
- Transwell invasion migration
- Adhesion assay
- Cell transfection
- MTT assay
- Colony formation assay
- Dual-luciferase assay
- Retroviral packing assay
- Lentiviral packing assay



Immunology

- Co-IP
- ELISA assay
- EMSA assay
- WB assay
- Immunohistochemistry
- Immunofluorescence



Pathology

- Tissue embedding
- Paraffin section
- Photograph
- Pathologic analysis
- He dyeing
- Other special dyeing
- IHC
- Immunofluorescence (IF)
- TUNEL assay
- Transmission electron microscope

Team introduction

ELK Team



Has a team of **57** technicians, **6** PDH in biology, **18** staff of sales and marketing and **6** staff of Administration and finance



This is a dynamic, young and creative team.



The average age of ELK team is 35-40 years old, and they all have 8-10 years of experience in the production and development of biological protein-related products

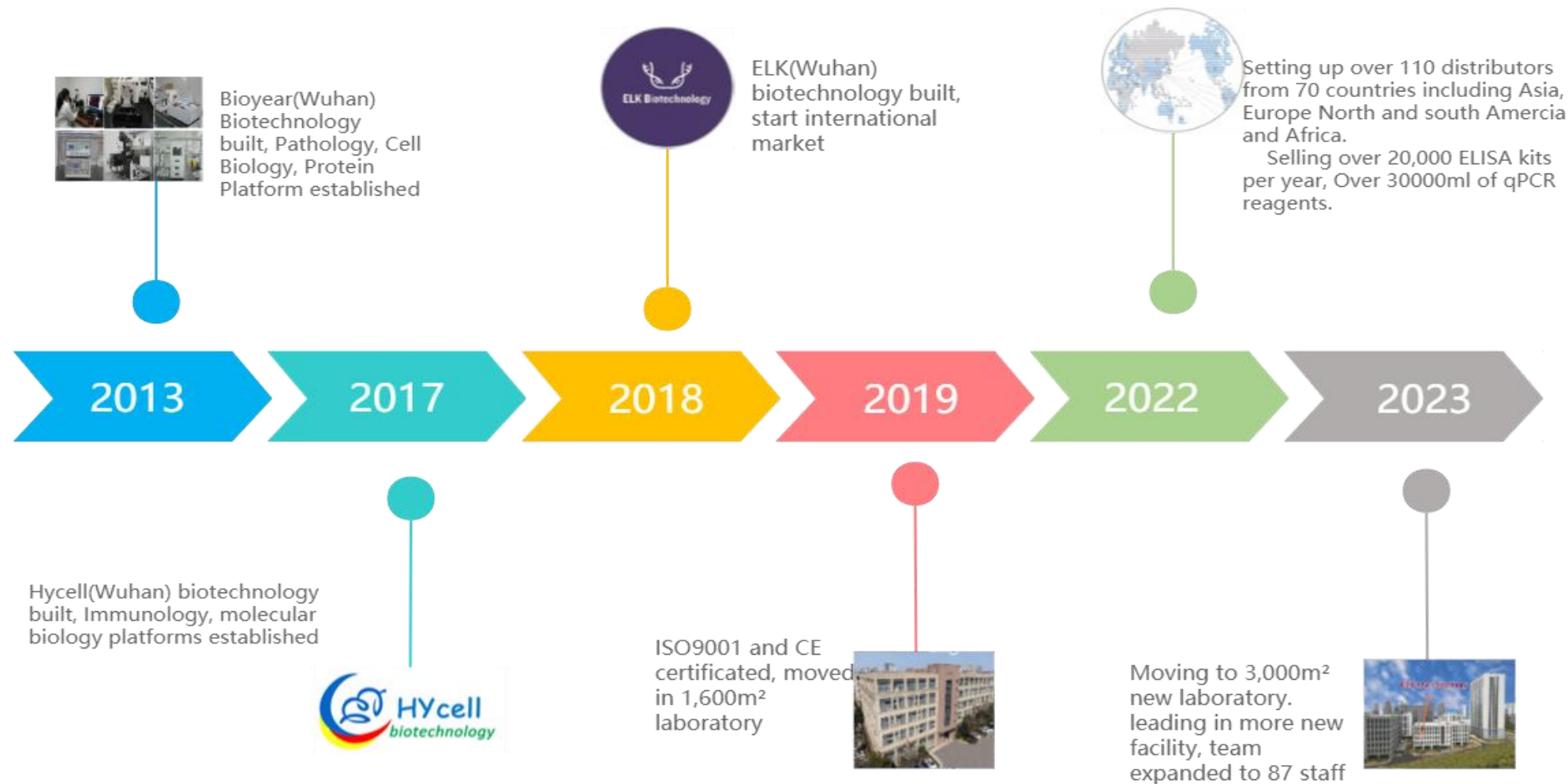




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Development path





ELK Biotechnology

Why choose ELK

9 years experienced in life science

Wide range products, more than 20,000 products

Fast delivery with 3 working days upon order confirmation



3,000 square meters laboratories with state-of-the-art facilities

Excellent quality and competitive prices with free replacement

Excellent service, reply within 24 hours for all inquiries and after-sale service



ELK Biotechnology

Products

01



ELISA Kit

8500+ ELISA kits with 22 species: human, rat, mouse, canine, cattle, chicken, dog, goat, hamster, horse, pig, rabbit, sheep

02



PCR, qPCR, RT-PCR

40 kinds of RT-PCR, PCR, qPCR reagents/kits with many high "IF" published articles

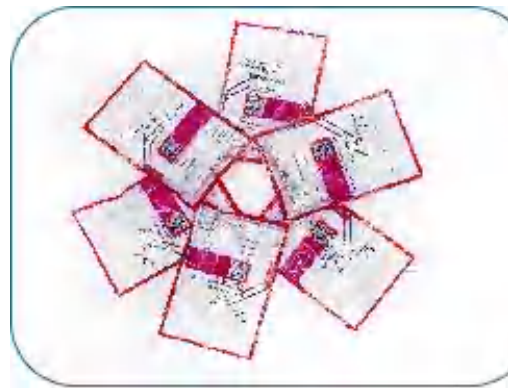
03



DNA/RNA Extraction kit

21 kinds of DNA/RNA extraction kits with Blood/Cell/Tissue/Genomic/plant/stool/soil/Viral/Bacterial samples

04



Antibody

10000+ Antibody with wide applications

05



Protein

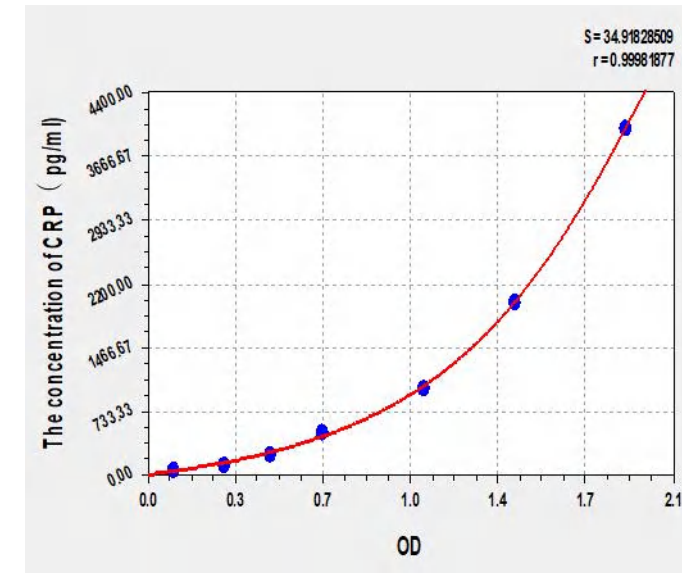
New products will be added in 2023

ELISA KIT



human CRP(C Reactive Protein) ELISA Kit

CRP ELISA Kit				
Concentration(pg/mL)	OD-1	OD-2	Average	OD-blank
4000	1.989	1.975	1.982	1.904
2000	1.551	1.527	1.539	1.461
1000	1.169	1.187	1.178	1.100
500	0.783	0.765	0.774	0.696
250	0.577	0.556	0.567	0.488
125	0.376	0.391	0.384	0.305
62.5	0.189	0.165	0.177	0.099
0	0.075	0.082	0.079	0.000



- 8500+ ELISA KITS
- Cost-efficient
- Wide species
- High specificity and sensitivity
- Strict QC
- Competent technical support



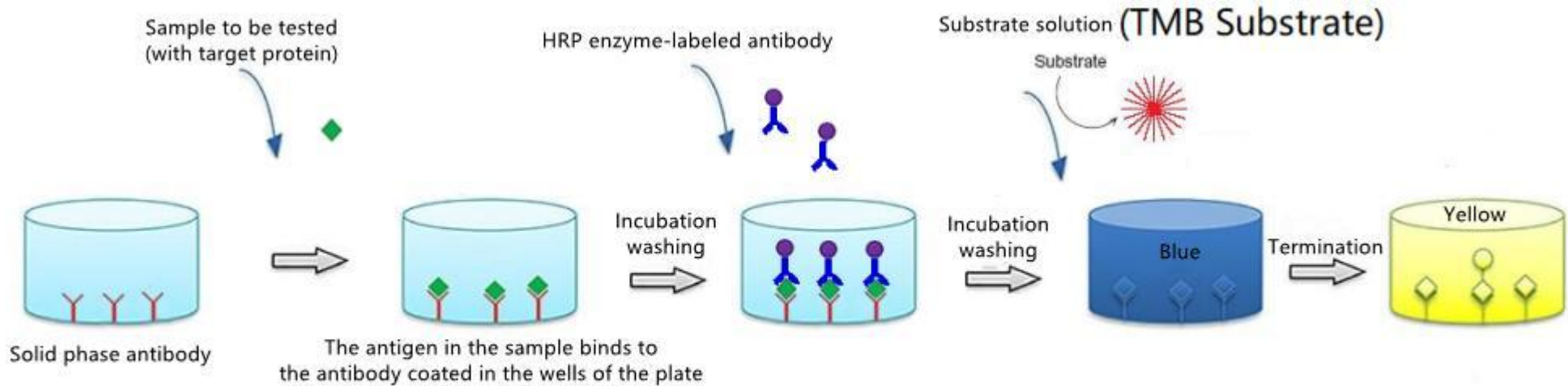
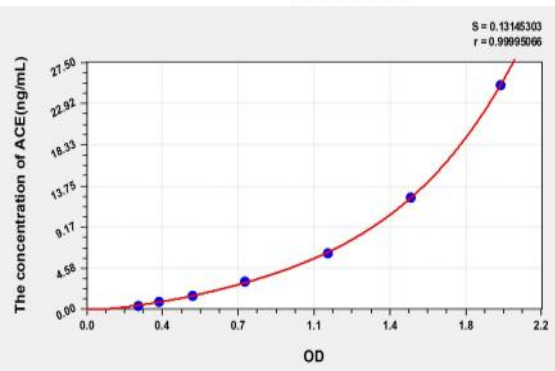
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Sandwich

Antigen detection by double antibody sandwich method



- ① Connect the specific antibody to the solid-phase carrier to form a solid-phase antibody: wash to remove unbound antibodies and impurities.
 - ② Add the test sample: make it contact and react with the solid-phase antibody for a period of time, and let the antigen in the sample combine with the antibody on the solid-phase carrier to form a solid-phase antigen complex. Washing removes other unbound material.
 - ③ Add enzyme-labeled antibody: combine the antigen on the solid-phase immune complex with the enzyme-labeled antibody. Thoroughly wash unbound enzyme-labeled antibody. At this time, the amount of the enzyme carried on the solid-phase carrier is positively correlated with the amount of the tested substance in the sample.
 - ④ Substrate addition: The enzyme in the sandwich complex catalyzes the substrate to become a colored product. The characterization or quantification of the antigen is carried out according to the degree of color reaction.
- According to the same principle, the macromolecular antigens are prepared as solid-phase antigens and enzyme-labeled antigen conjugates, respectively, and the double-antigen sandwich method can be used to measure the antibodies in the specimen.





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Competitive method

The competition method (Figure 2-1) can be used to measure antigens as well as antibodies. Taking the test antigen as an example, the test antigen and the enzyme-labeled antigen compete for binding with the solid phase antibody, so the amount of the enzyme-labeled antigen bound to the solid phase is inversely proportional to the amount of the test antigen. The operation steps are as follows:

- ① Connect the specific antibody to the solid-phase carrier to form a solid-phase antibody. washing.
- ② Add the mixed solution of the test sample and a certain amount of enzyme-labeled antigen to the test tube to react with the solid-phase antibody. If there is no antigen in the tested sample, the enzyme-labeled antigen can be successfully combined with the solid phase antibody. If the tested sample contains antigen, the enzyme-labeled antigen will bind to the solid-phase antibody at the same opportunity as the enzyme-labeled antigen, which competitively takes up the opportunity for the enzyme-labeled antigen to bind to the solid-phase carrier. amount decreased. Only the enzyme-labeled antigen is added to the reference tube. After incubation, the binding of the enzyme-labeled antigen to the solid-phase antibody can reach the most sufficient amount. washing.
- ③ Color development by adding substrate: The color of the reference tube is the darkest due to the most bound enzyme-labeled antigen. The difference between the color depth of the reference tube and the color depth of the test tube represents the amount of antigen in the tested sample. The lighter the color of the tube to be tested, the more antigen content in the sample.

Substitute sample
(with target protein)

HRP-tagged target protein

TMB solution

Incubation
Washing

Color
rendering

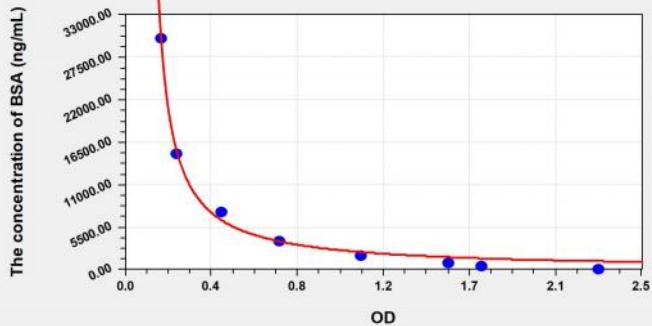
Termination

Solid phase capture antibody

Blue

Yellow

$S = 904.67945979$
 $r = 0.99729317$



Wide species

Species	Qty	Species	Qty	Species	Qty
Human	3859	Chicken	156	Avian	6
Mouse	1685	Horse	90	Canine	1
Rat	1552	Sheep	53	Cat	3
Pig	248	Guinea pig	38	Duck	2
Cattle	240	Simian	41	Hamster	13
General	176	Goat	43	Pigeon	1
Dog	153	Zabrafish	40	Spinach	1
Rabbit	147	Plant	6		

Research area

Cytokines&Growth Factor	Neurosciences
Autoimmunity	urinary system
Immunomodulator	Enzymes&kinase
CD&Adhesion molecule	hormone
Signal transduction	Glubulins
Canser research	Hypersensitivity
Hematology	Transplantation
Digestive system	Cardiovascular disease
Matabolism	Respiratory system
Innate Immunity	Endocrinology
Apoptosis	Reproductive tract disease

Advantage



ELK Biotechnology

Good performance



High Precision

Both INer and intra CV are <9%



High Sensitivity

Pg level



Good specificity

Cross-reactivity < 5%



Recovery Rate

85%-115%



Flexible choices on size

96 T / 48 T / customized range

Strict QC

🏠The unique coating system reduces the damage of the coating protein, the special Biotinylated-Conjugate and Streptavidin-hrp, while reducing data fluctuations, more effectively prolong the effective use time of the kit

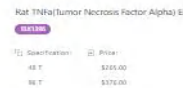
🏠The core raw materials are mainly self-developed and produced. From raw materials to semi-finished products to finished products, the gap between kit batches is strictly controlled through three parts of quality inspection (standard purity, antibody specificity, coefficient of variation, recovery rate, stability test)

🏠Precise freeZe-drying curve control, automatic pipetting station, maximize the reduction of production errors, eliminate static interference, strictly ensure the stability of the production environment



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**ELISA
PUBLICATION**



Download



TE999 Total RNA Extraction Reagent

FDI type (B.2000)	in % of GDP
FDI inflows	17.000
FDI outflows	17.000

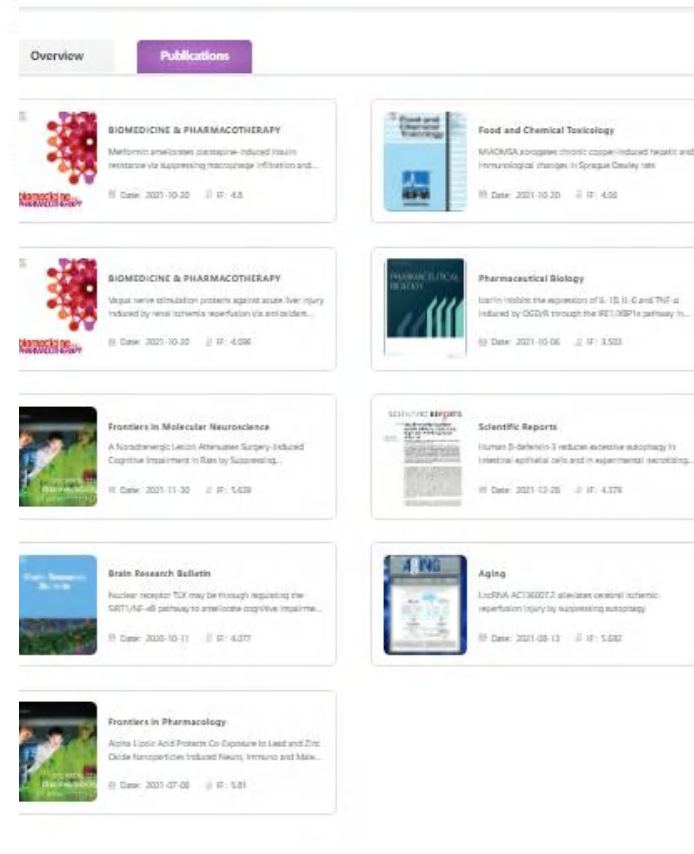
Download



Rat IL6(Interleukin 6) ELISA Kit

 Specification	 Price:
48 T	\$265.00
96 T	\$376.00

Download (2)





Citations

Total literature:
2000+

Total IF: 5000+



Items	Cat. No	Citation	IF
EntiLink™ 1st Strand cDNA Synthesis Kit (+gDNA Eraser)	EQ003	Multi-functional carboxymethyl chitin-based nanoparticles for modulation of tumor-associated macrophage polarity	10.723
Total RNA Extraction	EP013		
EntiLink™ 1st Strand cDNA Synthesis Kit (+gDNA Eraser)	EQ003	MiR-144-5p, an exosomal miRNA from bone marrow-derived macrophage in type 2 diabetes, impairs bone fracture healing via targeting Smad1	10.435
PCR SuperMix	EQ001		
Human DSG1 ELISA	ELK1963	Immunological methods for the diagnosis of oral mucosal diseases	11.113
Human DSG3 ELISA	ELK4019		
Human EVPL ELISA	ELK2839		
Human COL17 ELISA	ELK2988		
Human COL7 ELISA	ELK3163		
Human LAMC1 ELISA	ELK3868		
Rat IL10 ELISA	ELK1144	Berberin sustained-release nanoparticles were enriched in infarcted rat myocardium and resolved inflammation	9.429
PCR SuperMix	EQ001	PEX5R/Trip8b-HCN2 channel regulating neuroinflammation involved in perioperative neurocognitive disorders	9.584
EntiLink™ 1st Strand cDNA Synthesis Kit (+gDNA Eraser)	EQ003		
Total RNA Extraction			
	EP013		
EntiLink™ 1st Strand cDNA Synthesis Kit (+gDNA Eraser)	EQ003	MiR-21 regulating PVT1/PTEN/IL-17 axis towards the treatment of infectious diabetic wound healing by modified GO-derived biomaterial in mouse models	9.429
BCA Protein concentration determination kit	BC016		
Reagent Kit for Single Cell Gel Electrophoresis Assay	CA001	MYC-targeted WDR4 promotes proliferation, metastasis, and sorafenib resistance by inducing CCNB1 translation in hepatocellular carcinoma	9.685
Rat IL1b ELISA	ELK1272	Regulation of the p75 neurotrophin receptor attenuates neuroinflammation and stimulates hippocampal neurogenesis in experimental Streptococcus pneumoniae meningitis	9.587
Rat IL6 ELISA	ELK1158		
	ELK1396		
	ELK1503		



Total IF: 5000+

Items	Cat. No	Citations	IF
PCR SuperMix	EQ001		
Rat IL1b ELISA	ELK1272	Sestrin2 overexpression attenuates osteoarthritis pain via induction of AMPK/PGC-1α-mediated mitochondrial biogenesis and suppression of neuroinflammation	19.227
Rat IL6 ELISA	ELK1158		
Rat TNFa ELISA	ELK1396		
Rat IL6 ELISA	ELK1158	Minimally invasive bioprinting for in situ liver regeneration	16.8
Rat IFNg ELISA	ELK1133		
Rat IL-12p40 ELISA	ELK2509		
Rat Ntn1 ELISA	ELK5693	Engineered exosomes enriched in netrin-1 modRNA promote axonal growth in spinal cord injury by attenuating inflammation and pyroptosis	15.863
Rat IL1b ELISA	ELK1272		
Rat TNFa ELISA	ELK1396		
Rat IL6 ELISA	ELK1158		
Total RNA Extraction	EP013	Cell-Free Extracts from Human Fat Tissue with a Hyaluronan-Based Hydrogel Attenuate Inflammation in a Spinal Cord Injury Model through M2 Microglia/Microphage Polarization	15.153
Mouse IL1b ELISA	ELK1271		
Mouse IL6 ELISA	ELK1157		
Mouse TNFa ELISA	ELK1395		
Pig PF4 ELISA	ELK5910	Mesenchymal stromal cells mitigate liver damage after extended resection in the pig by modulating thrombospondin-1/TGF-β	14.404
LPC ELISA	ELK8145	Gut microbiota-mediated lysophosphatidylcholine generation promotes colitis in intestinal epithelium-specific Fut2 deficiency	12.771
Mouse LPS ELISA	ELK8727		
Human TNFa ELISA	ELK1190		
Human IL1b ELISA	ELK1270		
SOD assay kit	BC009	Piperine loaded metal organic frameworks reverse doxorubicin induced chemobrain in adult zebrafish	11.467
MDA assay kit	BC021		
AChE assay kit	BC044		
Zebrafish TNFa ELISA	ELK8512		
PCR SuperMix	EQ001	Prolonged anesthesia induces neuroinflammation and complement-mediated microglial synaptic elimination involved in neurocognitive dysfunction and anxiety-like behaviors	11.15
Reverse Transcriptase	EQ002		
Total RNA Extraction	EP013		
Rat LIF ELISA	ELK5072	Leukemia inhibitory factor is a therapeutic target for renal interstitial fibrosis	11.205
Blood/Cell/Tissue Genomic DNA Extraction Kit	EP007	ACSS3 represses prostate cancer progression through downregulating lipid droplet-associated protein PLIN3	11.556



Metabolism
ELISA KIT



Microorganism
ELISA KIT



Cell biology
ELISA KIT



Signaling
ELISA KIT



Epigenetics &
Nuclear Signaling
ELISA KIT



Cancer & Tumors
ELISA KIT



Immunology
ELISA KIT



Neuroscience
ELISA KIT



Stem cell
ELISA KIT



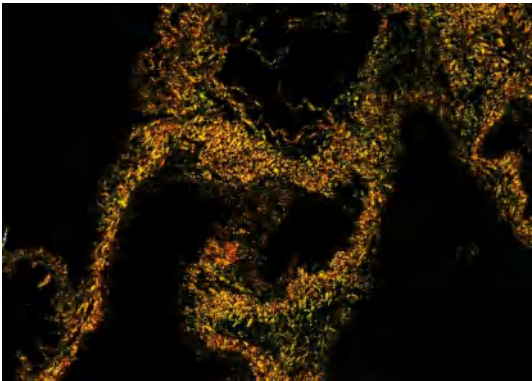
Cardiovascular
ELISA KIT

Mouse IL-6	Human IL-8	Human IL-6	Human HMGB-1	HIS(Histamine)	Human IL-2
Mouse TNF- α	Pg(Progesterone)	Mouse IL-10	Human IL-10	Human IFN- γ	E2(Estradiol)
Mouse IL-1 β	Human A β 1-42	TGF- β 1	VMA(Vanillylmandelic Acid)	NA/NE(Noradrenaline/Norepinephrine)	Mouse FSH
Human TNF- α	Human IL-18	ST/5-HT	Rat IL-10	cAMP	Mouse IFN- β
Rat TNF- α	Mouse IL-18	T(Testosterone)	Human VEGF-A	DA(Dopamine) ELISA Kit	Human IL-17A
Rat IL-6	Mouse MAU	Mouse INS(Insulin)	MDA(Malondialdehyde)	Human A β 1-40	CORT(Corticosterone)
Human IL-1 β	Mouse IL-4	PGE2(Prostaglandin E2)	Rat FSH	Rat LH(Luteinizing Hormone)	Rat IL-18(Interleukin 18)
Rat IL-1 β	Mouse HMGB-1	Mouse IFN- γ	8-OHdG	Mouse VEGF-A	LPS(Lipopolysaccharide)

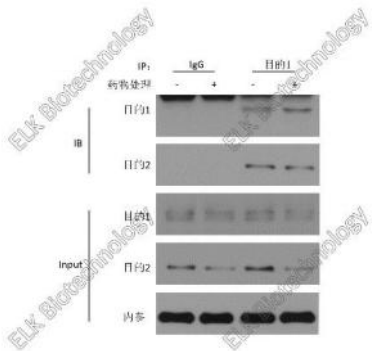
Antibody



Category	Qty
primary antibody	11000 ⁺
Monoclonal antibody	500 ⁺
Secondary Antibody	10 ⁺



Sirius Red

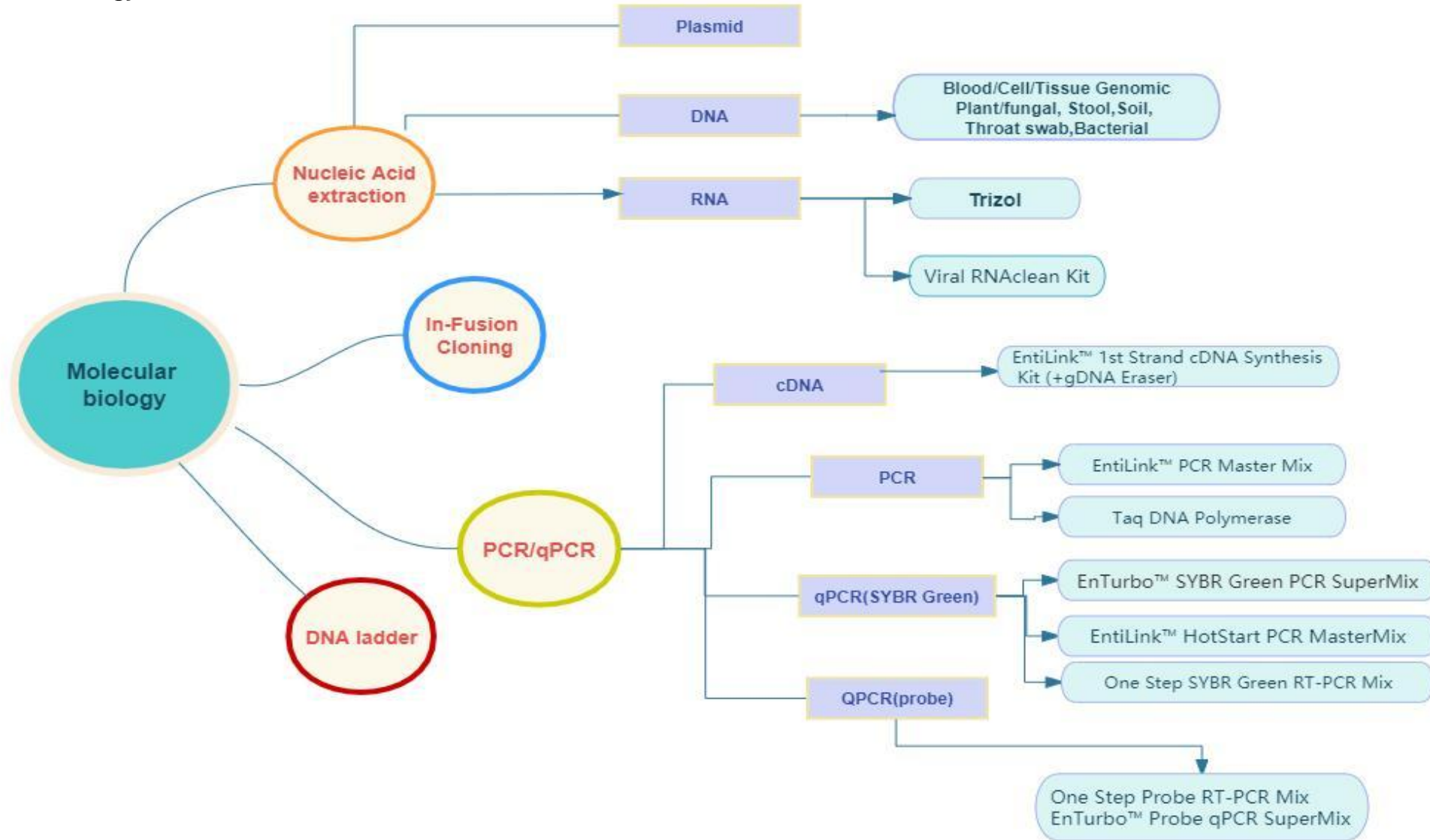


CO-IP



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Molecular Biology





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Nucleic acid purification and extraction kits

EP001 Plasmid Miniprep Kit
EP002 Plasmid Prepare Kit
EP004 EndoFree Plasmid Miniprep Kit
EP005 PCR Circle Purification Kit
EP006 Gel DNA Purification Kit
EP007 Blood/Cell/Tissue Genomic DNA Extraction Kit
EP008 Whole Blood DNA MiniPrep Kit
EP009 Amp Blood Clot DNA Extraction Kit
EP010 DNasecure Plant Kit
EP011 Plant Genomic DNA Extraction KIT
EP012 Stool Genome DNA Extraction KIT
EP014 Total RNA Extraction Kit
EP013 TRIpure Total RNA Extraction Reagent
EP015 Endo-Low Plasmid Prepare Kit
EP017 Viral RNAClean Kit
EP018 Plant Total RNA Extraction Kit
EP003 Max Plasmid Purification Kit
EP021 Bacterial DNA Extraction kit



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qPCR/RT-PCR reagents

EQ001 EnTurbo™ SYBR Green PCR SuperMix
EQ013 EnTurbo™ SYBR Green PCR SuperMix(High ROX Premixed)
EQ014 EnTurbo™ SYBR Green PCR SuperMix(Low ROX Premixed)
EQ015 One Step Probe RT-PCR Mix
EQ016 GoldView
EQ017 EnTurbo™ probe qPCR SuperMix
EQ003 EntiLink™ 1st Strand cDNA Synthesis Kit (+gDNA Eraser)
EQ002 EntiLink™ Reverse Transcriptase
EQ010 RNase Inhibitor
EQ011 dNTP Mix (PCR Grade) 10 mM each
EQ004 EntiLink™ PCR Master Mix
EQ005 Taq DNA Polymerase
EQ006 Hot start Taq DNA Polymerase
EQ007 One Step SYBR Green RT-PCR Mix
EQ008 Pfu DNA Polymerase
EQ009 KOD DNA Polymerase
EQ022 Human Telomere Length Quantification qPCR Assay Kit(Relative)
EQ020 RNA stabilization Solution
EQ021 20×SYBR Green Dye
EQ023 Proteinase K



Molecular biology: Star Products

cDNA

EQ003 EntiLink™ 1st Strand cDNA
Synthesis Kit (+gDNA Eraser)



RNA extraction

EP013 TRIpure Total RNA Extraction
Reagent(Trizol)



PCR/qPCR

EQ001 EnTurbo™ SYBR Green PCR SuperMix
EQ004 EntiLink™ PCR Master Mix

Global sales networks

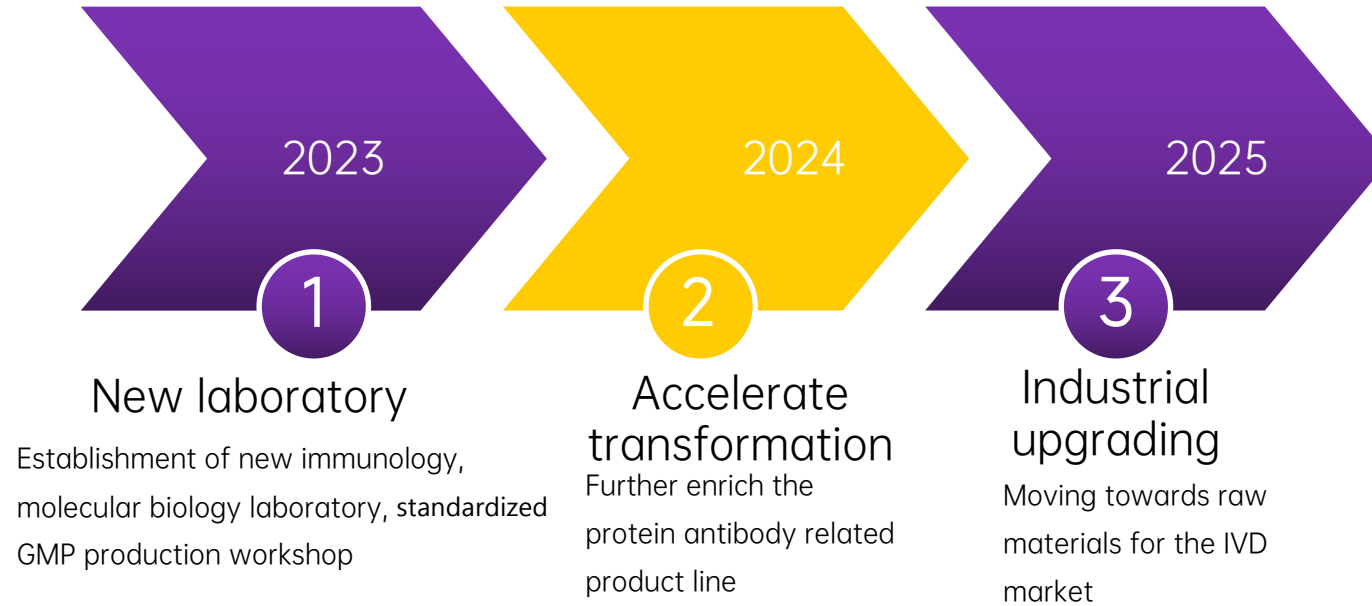


- We have established distributors from **70** countries
- In Asia, we sell more than **30,000** mL of qPCR Mix and more than **20,000** ELISA Kits and more than **1,000** antibodies each year.
- We cover **15** European countries in Europe
- Have more than **18** distributors in Africa
- In 2020, we entered the North and South American markets and we have more than **20** inquiries every week

Marketing materials



Planning and future



At the same time of development, we will always implement the concept of environmental protection in the production process, and always take scientific development and environmental protection as the company's mission. In line with the belief of providing scientists with the most cutting-edge and cost-effective research tools, we will continue to devote ourselves to providing high-quality scientific research products for scientific researchers and contributing to the development of human life sciences.



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Thanks for watching

Suitable for company promotion, product introduction, development plan, business financing, etc. product introduction, development plan, business financing, etc.



WWW.ELKBIOTECH.COM



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