Elabscience[®]

A Reliable Research Partner in Life Science and Medicine

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▼ Toll-free: 1-888-852-8623

置 Tel: 1-832-243-6086

☆ Fax: 1-832-243-6017

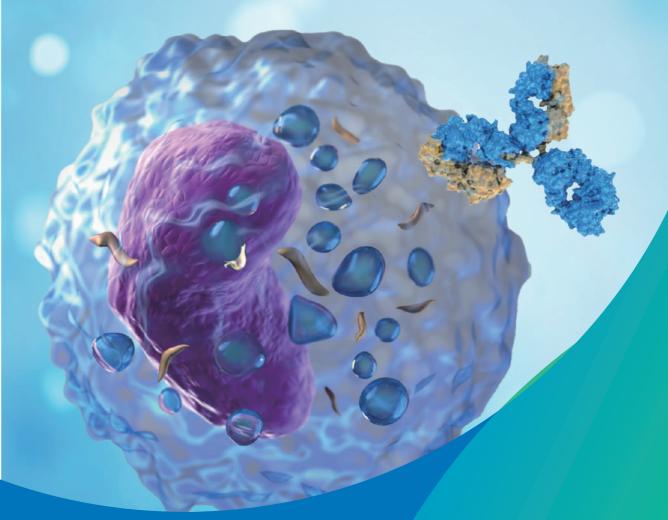
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Web: www.elabscience.com

⋈ Email: orders@elabscience.com techsupport@elabscience.com





Elabscience®

One-stop Solution for Cell Detection

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• Elabscience® Introduction

Expert in Cell Detection, Providing One-Stop Solution

Elabscience® specializes in immunodiagnostic technology for life science community. We have complete platform for R&D and manufacturing. Additionally, we have in-house QC for every product, endeavoring to keep your experimental results more consistent and precise. Through unremitting effort and development, we have been able to sell our products across various georaphical locations and customers are present in more than 150 countries worldwide.



Elabscience Group consists of 4 brands- Elabscience, DIA·AN, Pricella and Uni-science, each working in its own domain and manufacturing Flow Cytometry Antibodies, Cell Metabolic Assay Kits, ELISA Kits, Cell and Related Culture Reagents, Cell Function Detection kits, Antibody & Protein Raw Materials as well as IVD Products. All of these products have passed ISO9001 international certification and EU CE certification.





Our group is proud to have over 12,000 m² of office space and a 15,000 m² production facility, equipped with a sophisticated ten-thousand-level GMP certified clean room and an impeccable quality management system. Our team of over 700 employees includes 30% with advanced degrees, who drive our innovation and success.

14300+

1000+

150+

•

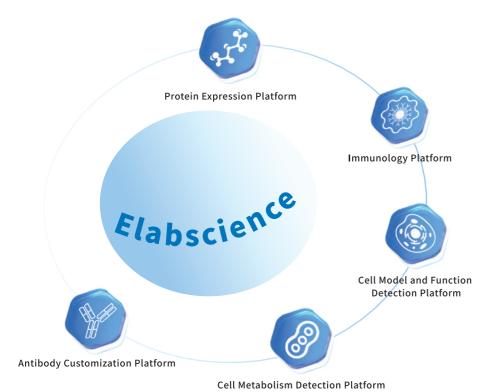
Countries Worldwide

Technology Platforms

Publications

Cooperation Units

■ Technology Platforms: Provide Customers with Comprehensive Cell Detection-related Products and Services



Elabscience® capitalizes on its comprehensive strengths within the biotech value chain to create five specialized technology platforms: Protein Expression, Immunology, Cell Model and Function Detection, Cell Metabolism Detection, and Antibody Customization. With a focus on innovative R&D and stringent quality assurance, Elabscience® provides researchers worldwide with high-caliber, dependable experimental tools and scientific support.

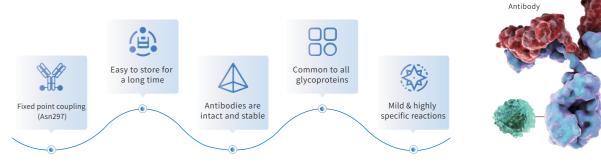
■ Professional Teams: Provide One-stop Services from Pre-sales to After-sales, from Products to Experimental Solutions



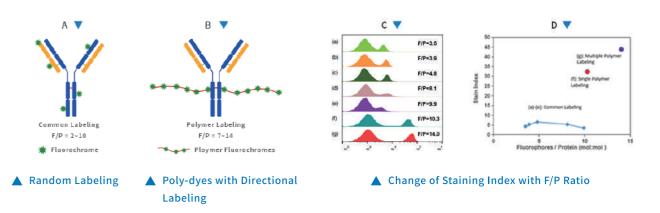


- Technological Innovation: Provide Cutting-Edge Products and Upgraded Services with Continuous R&D.

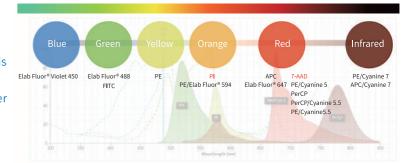
Upgraded to the 4th generation: Enzymatic Glycosyl Click



Single point polymerized dye, directional labeling



Series Dyes Labeling: Realize the color world under single wavelength excitation



- The self-developed series dye synthesis and labeling technology
- Lower requirement of Flow Cytometer laser for multi-color detection

40+ Authorized Patents. Products were cited in 14,300+ SCI publications

6 Authorized

39 Authorized Utility

14 Pending

Invention Patents

Model Patents

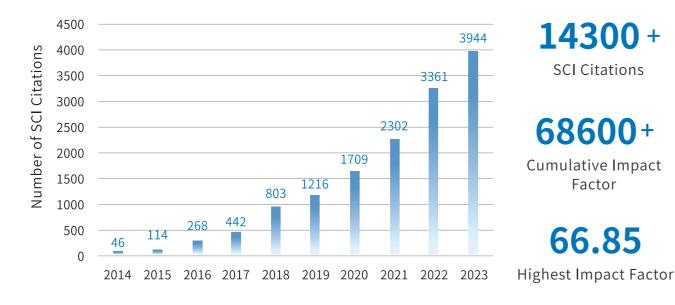
Application of Invention











Elabscience® SCI citation Trends in Recent 10 Years

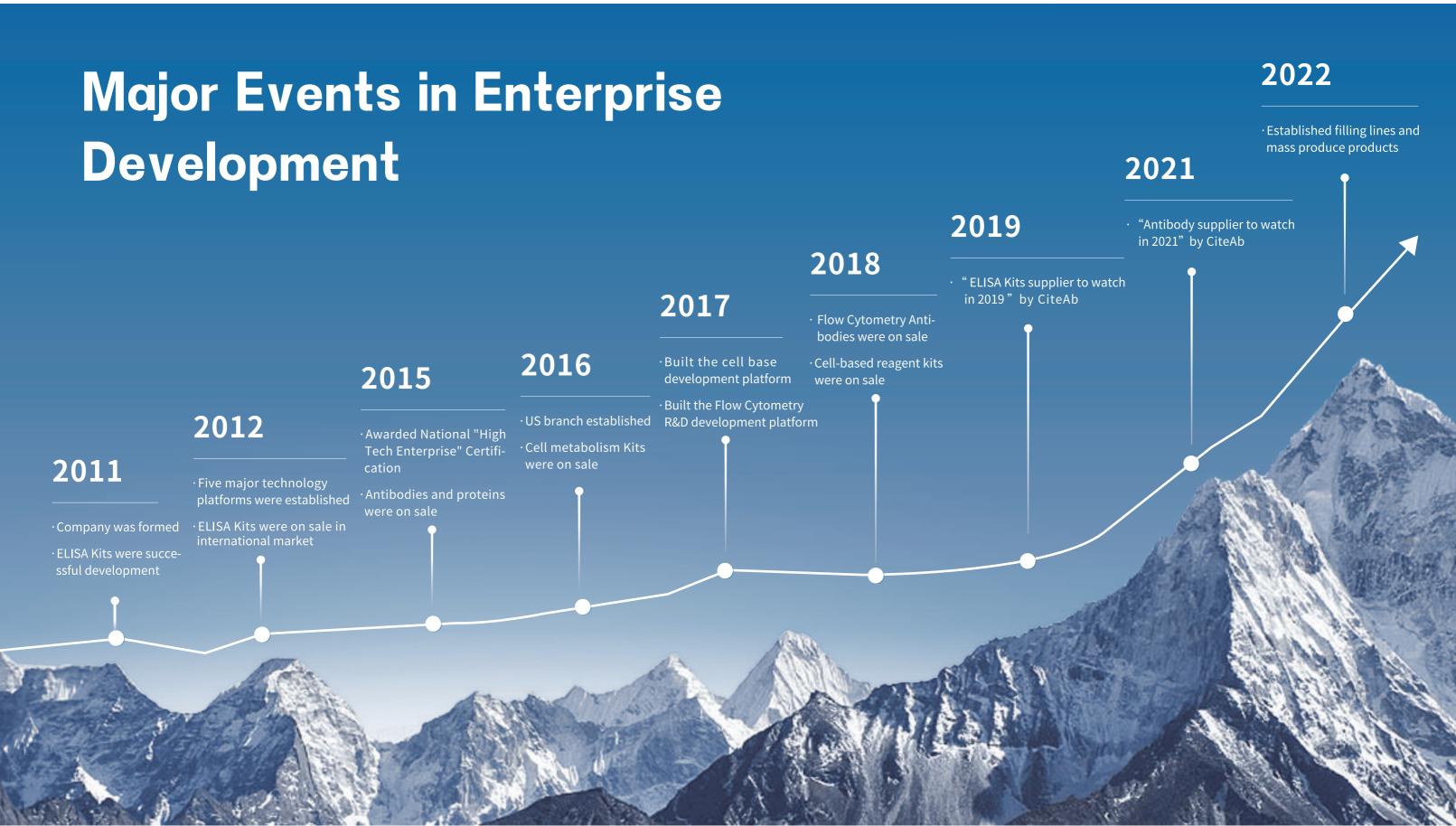
Products Have Been Delivered to Clients in More than 150 Countries and Regions Around the World



- Our customers have spread in more than 150 countries all over the world.
- Always Based on Customer Needs, Providing Professional, Reliable, Efficient and Convenient Products and Solutions



■ More than Ten Years of Professional Cultivation, Achieving Excellent Quality



Product Line Introduction

Expert in Cell Detection, Providing One-Stop Solution

Elabscience® group combines the advantages of the industry chain, and consistently carries out technological innovation, possesses the remarkable technology, creates excellent R&D strength, adheres to high standards of quality control system, and provides professional and reliable products and services for global biotech researchers.

Component Detection



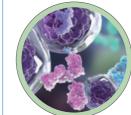
• Intracellular Marker

Flow Antibody and

Related Reagent

• Intranuclear Marker

ELISA Kit



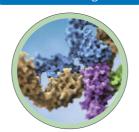
Cytokines • Intracellular Protein

Glycolysis & Lipid

· Amino Acids & Proteins Inorganic Ions

Cell Metabolism Assay

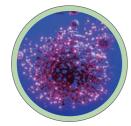
Protein & Antibody Related Reagent



- WB Detection
- IHC Detection
- IF Detection
- IP/Co-IP

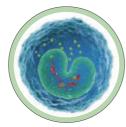
Function status affects the component level

Cell Death



- Apoptosis
- Pyrodeath
- Cuproptosis
- Ferroptosis
- Disulfidptosis

Cell Proliferation



- CFSE
- EdU
- CCK-8

MTT CCK-8 • DHL

Calcein AM/PI

Cell Viability/Toxicity

Cell Cycle



- Cell Cycle (Red)
- Cell Cycle (Blue)
- Cell Cycle (Green)

Flow Cytometry Antibody

A Trustworthy Supplier of Flow Cytometry Antibody



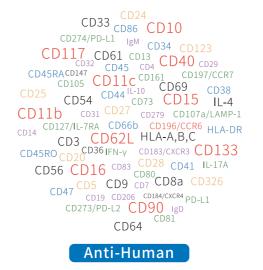
After more than 7 years of growth and accumulation, Elabscience® has 3000+ Flow Cytometry Antibodies, covering anti-human/rat/mouse, etc., rich indicators to meet the needs of customers Flow Cytometry detection. At the same time, Elabscience® can provide the necessary reagents for Flow Cytometry experiments, including isotype controls, fluorochromes, labeling kit, and FCM reagents for intracellular factor detection such as fixed membrane permeabilization and cell stimulation and protein transport inhibitor. In addition, Elabscience® also provides customers with high-quality services, including free Flow Cytometry panel design, data analysis, etc.

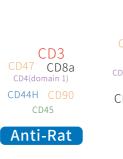
Rich Indicators and 14 Kinds of Fluorochromes to Meet the Diversity of Flow Cytometry Detection Needs

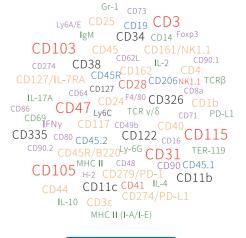
© There are 14 fluorochromes available, and more fluorochromes labeled Flow Cytometry Antibodies are coming to market.



©Selecting classic clone cited in publications as the source of Flow Cytometry Antibodies, with abundant markers.

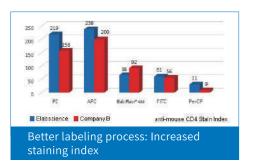


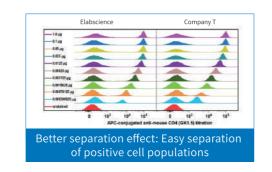




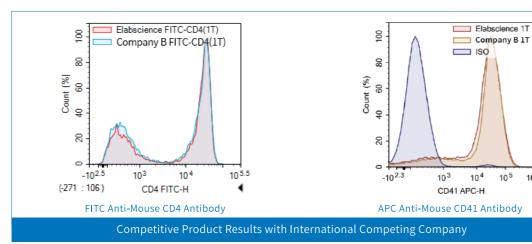
Anti-Mouse

Fixed Point Non-Destructive Labeling Technology, Product Quality is Reliable





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Self-Developed, With More Guaranteed Quality

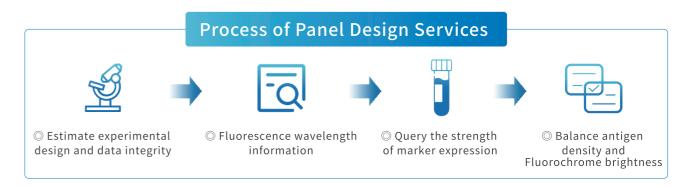
Elabscience® Flow Cytometry Antibodies are locally developed, regular indicators stock, can quickly respond to customer needs, and reduce the impact of transportation time on product quality.

Professional Team to Provide Value Services, Free Flow Cytometry Panel Design and Data Analysis

Elabscience® has featured service including product pre-sale recommendation, after-sales service, Flow Cytometry panel design, data analysis and can help customers solve pre-sale and after-sales problems, provide help for customers to set up experimental schemes, analysis of experimental results, and help customers get accurate and ideal experimental results.

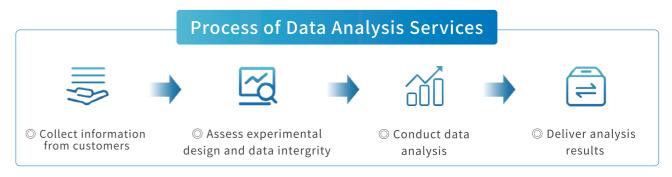
Elabscience® Professional Flow Cytometry Panel Design Service

Provided with Flow Cytometry experimental indicators (specificities, logical relationships or references, expression level softarget maker) and basic information of Flow Cytometer (laser, detection channel, filter information), Elabscience® will offer professional and free Panel Design Services based on your experiments.



Elabscience® Professional Flow Cytometry Data Analysis Services

Elabscience® provides professional Data Analysis Services for free! It's availble to our product users once they provide FCS format data and markers' logical relationships to our technical support.



Flow Cytometry Antibody High IF Publications

In 2018, Elabscience® launched the Flow Cytometry Antibody series, and since then, the number of publications published by customers using Elabscience® Flow Cytometry Antibody has increased year by year, and the growth trend is stable. By the end of December 2023, there were 252 high-score articles published using Elabscience® Flow Cytometry Antibody, of which 67 articles had an impact factor ≥10, and the highest IF was 37.8 (Circulation). The increase in the number of publication citations indicates that Elabscience® Flow Cytometry Antibody has entered the attention of a large number of researchers, and the increase in the number of publication citations in the future is worth looking forward to.



Elabscience® Hot Flow Cytometry Antibody

Cell Type	Reactivity	Maker
	Human	CD3-PE CD4-FITC CD8a-APC
T Cell	Mouse	CD3-PE CD4-FITC CD8a-APC
D.CII	Human	CD3-FITC CD19-APC
B Cell	Mouse	CD3-FITC CD19-APC
	Human	CD45-APC CD3-FITC CD16-PE CD56-PE
NK Cell	BALB/c Mouse	CD3-FITC CD49b-APC
	C57BL/6 Mouse	CD3-FITC NK1.1-APC
Th1/Th2 Cell	Human	CD3-Per/Cyanine5.5 CD4-FITC IFN-γ-PE IL-4-APC
THI / THE CCT	Mouse	CD3-Per/Cyanine5.5 CD4-FITC IFN-γ-PE IL-4-APC
	Human	CD3-Per/Cyanine5.5 CD4-FITC IL-17A-PE
Th17 Cell	Mouse	CD3-Per/Cyanine5.5 CD4-FITC IL-17A-PE
Trag Call	Human	CD4-FITC CD25-PE CD127-APC
Treg Cell	Mouse	CD4-FITC CD25-PE FOXP3-APC

For more phenotype, please visit our website: <u>www.elabscience.com</u>.

Elabscience® Labeling Kits and Related Products

At present, there are 20 Elabscience® labeling kits, including 15 fluorochrome labeling kits and 5 biotin labeling kits. Each labeling kit is available in three ultrafiltration tube sizes to meet different molecular weight protein/antibody labeling needs.

Fluorochrome

Cyanine 3	Cyanine 5	Cyanine 7	Cyanine 5.5	Elab Fluor® 430
Elab Fluor® 680	Elab Fluor® 488	Elab Fluor® 700	Elab Fluor® 568	Elab Fluor® 750
Elab Fluor® 594	Elab Fluor® Violet 450	Elab Fluor® 647	FITC	Elab Fluor® 780

Biotin



BSA Removal Kit

Cat. No.	Product Name	Size
E-LK-R002	BSA Removal Kit	10 Reaction

Elabscience® Fluorochrome Dyes

Cat. No.	Product Name	Excitation Laser Lines (nm)	Excitation Max (nm)	Emission Max (nm)
E-FN-N102	PE (R-Phycoerythrin)	488/561	495, 565	575
E-FN-N103	APC (Allophycocyanin)	633	650	660
E-FN-N104	PerCP (Peridinin-Chlorophyll-Protein Complex)	488	440, 480, 675	675
E-FN-L103	Cross-linked APC	633	650	660
E-FN-S102	SMCC Activated R-PE	488/561	495, 565	575
E-FN-S103	SMCC Activated APC	633	650	660
E-FN-S104	SMCC Activated PerCP	488	440, 480, 675	675
E-FN-S101	SMCC Activated Peroxidase (HRP)	_	_	_

For more phenotype, please visit our website: <u>www.elabscience.com</u>.

FCM Reagents

Elabscience® offers a wide range of Flow Cytometry reagents, including red blood cell lysis, cell stimulation and protein transport inhibitor, buffer, nuclear staining, cell fixation/permeabilization, FcR blocking and other Flow Cytometry reagents to help customers successfully conduct Flow Cytometry experiments.

Product Categories	Cat. No.	Product Name	Application
	E-CK-A105	10×ACK Lysis Buffer	Red Blood Cell Lysis
Red Blood Cell Lysis	E-CK-A106	10× RBC Lysis/Fixation Solution	Red Blood Cell Lysis
Cell Stimulation and	E-CK-A091	Cell Stimulation and Protein Transport Inhibitor Kit	Stimulation/Transport Inhibitor
Protein Transport	E-CK-A019	Cell Stimulation MIX Kit	Cell Stimulation
Inhibitor	E-CK-A013	Protein Transport Inhibitor MIX	Protein Transport Inhibitor
Buffer	E-CK-A107	Cell Staining Buffer	Dilution and Wash
	E-CK-A161	PI Reagent	Nuclear Staining
Nuclear Staining	E-CK-A162	7-AAD Reagent	Nuclear Staining
	E-CK-A163	DAPI Reagent	Nuclear Staining
Cell Fixation/	E-CK-A108	Foxp3/Transcription Factor Staining Kit	Fixation/Permeabilization
Permeabilization	E-CK-A109	Intracellular Fixation/Permeabilization Buffer Kit	Intracellular Fixation/Permeabilization
FcR Blocking	E-AB-F0997A	Purified Anti-Mouse CD16/32 Antibody	Mouse Sample Blocking
T CIV DIOCKING	E-AB-F1236A	Purified Anti-Human CD16 Antibody	Human Sample Blocking

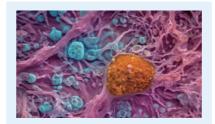
To learn more about Flow Cytometry products, please visit our website: www.elabscience.com.

Cell Function Detection Assays

Provide Customers with One-stop Solutions for Cell Function Detection

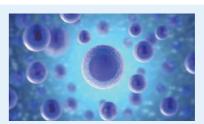
The key to cell related research is cell function detection. Elabscience® provides various Cell Function Detection Assays to assist customers in cell related research.

Rich Categories Meet the Diverse Needs of Cell Function Detection



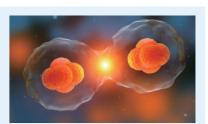
Apoptosis detection

- O Annexin V Apoptosis Kit
- Mitochondrial Membrane Potential Assay Kit (with JC-1)
- O Caspase Activity Assay kit



Cell proliferation/viability/ cytotoxicity detection

- © CFSE Cell Division Tracker Kit
- © Calcein AM/PI Double Staining Kit
- © E-Click EdU Cell Proliferation Detection Kit
- © CCK-8 cell viability detection kit
- © LDH cytotoxicity detection kit



Cell cycle detection

- © Cell cycle detection kit (red)
- O Cell cycle detection kit (blue)
- © Cell cycle detection kit (green)

Professional Team, Providing Reliable Products and Quality Services



Professional R&D team

The R&D team has a Ph.D. ratio of up to 50%, generating a robust professional environment and a fully integrated industrial ecosystem.



Strong production and quality inspection team

Elabscience® Cell Function Detection Assays undergo stringent quality control procedures and comprehensive comparative verification to ensure exceptional quality and optimal performance.



Mature technical support team

A technical support service team to provide you with a full range of technical guidance within 24 hours and ensures worry-free after-sales service.

Key Raw Materials are Self-developed, Product Quality is Reliable and Cost-effective



Based on Dia-An Biotechnology

A high-tech team with more than 20 years of experience in protein and enzyme development, provides Elabscience® with high-quality raw materials.



Relying on five characteristic technology platforms

Through characteristic technology platforms we provide professional and reliable products.



Strictly control product quality

All products must assess ISO 9001 and ISO 13485 certification, to ensure stable product quality.

High Efficiency and Sensitivity of Cell Function Detection Assays, Has Been Widely Recognized and Praised. Cited by 700+ SCI Publications

By the end of Dec. 2023, there has been **720** SCI publications using Elabscience® cell function detection products, with a cumulative IF of **4207.8**. The highest IF achieved is **64.5** (*Cell*).

Product Name	Cat. No.	Citation Quantity	IF
Annexin V-FITC/PI Apoptosis Kit	E-CK-A211	202	1117.0
Enhanced Cell Counting Kit 8 (WST-8/CCK8)	E-CK-A362	92	570.5
Annexin V-APC/7-AAD Apoptosis Kit	E-CK-A320	89	603.5
Cell Cycle Assay Kit (Red Fluorescence)	E-CK-A351	44	202.6
Annexin V-APC/PI Apoptosis Kit	E-CK-A217	38	223.7

For more published information, please visit our website: www.elabscience.com.



Star Products—Annexin V Apoptosis Detection Kits

Annexin V is an effective method to distinguish early apoptosis, late apoptosis.

Elabscience® has developed Annexin V Apoptosis Detection Kits with combining 15 fluorochromes and 3 nucleic acid dyes for multiple research requirements.

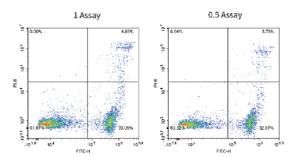


Advantages of Elabscience® Annexin V Apoptosis Detection Kits

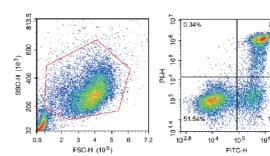
- ◎ Multiple Choices: 15 fluorochromes × 3 nucleic acid dyes
- O High Accuracy: Ideal for early apoptosis detection and no fixation-related false positive
- O Quick & Simple Operation: Only 15~20 min hand-on time
- O Strict QC: Developed in house, traceable and reliable quality
- © Cost-effectiveness: 1 Assay can be used as 2 Assays based on 106 cells



Results of Elabscience® Annexin V Apoptosis Detection Kits

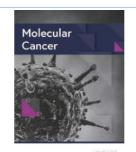


Jurkat cells were treated with 5 μ M camptothecin for 4 h and harvested 1 \times 10 5 cells, detected with Annexin V-FITC/PI kit (E-CK-A211) of different specifications.



Jurkat cells were treated with 5 μ M camptothecin for 4 h, harvested 1 \times 10 6 cells, detected with Annexin V-FITC/PI kit (E-CK-A211).

By the end of Dec. 2023, there has been **307** SCI publications using Elabscience® Annexin V Apoptosis Kit, and the total IF of the publications has reached **1724.5**, of which the highest IF is **41.4**(*Molecular Cancer*), and the popular product (Annexin V-FITC/PI Apoptosis Kit (E-CK-A211) has been cited 202 times, with a cumulative IF of **1117**.



Title: MARCKSL1-2 reverses docetaxel-resistance of lung adenocarcinoma cells by recruiting SUZ12 to suppress HDAC1 and elevate miR-200b

IF: 41.4 Journal: Molecular Cancer

Elabscience® product: Annexin V-FITC/PI Apoptosis Kit (E-CK-A211)

BMC



Star Products—Tunel Apoptosis Detection Kits

Elabscience® Tunel Apoptosis Detection Kit, including the One-step TUNEL In Situ Apoptosis Kit, One-step TUNEL Flow Cytometry Apoptosis Kit, and TUNEL In Situ Apoptosis Kit (HRP-DAB Method), can be used for apoptosis detection on tissue (paraffin-embedded, frozen section) and cells samples (cell smears, cell crawling films, suspension cells, adherent cells) with a Microscope or Flow Cytometer.

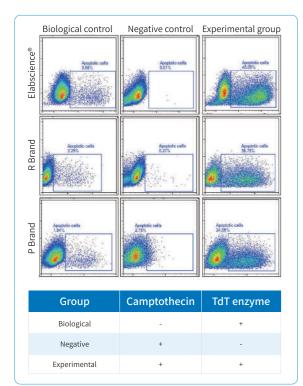


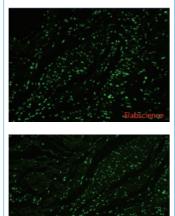
Advantages of Elabscience® One-step TUNEL In Situ Apoptosis Kits

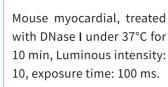
- © Cost-effective: The key components (TdT &fluorescein-dUTP) are self-developed and have stable performance
- © Safe and non-toxic: No dimethyl arsenate, non-toxic and harmless to humans and environment
- Multiple choices: A variety of fluorescent dyes (FITC/ Elab Fluor® 488/ Elab Fluor® 594/ Elab Fluor® 647/ Elab Fluor® 555) are available
- © Easy to operate: One-step dyeing, saving time and effort
- © Diverse options: Various detection methods (Fluorescence microscope/ Flow Cytometer/ Optical microscope)

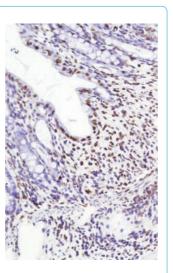


Results of Elabscience® TUNEL Apoptosis Detection Kits









Mouse colon, treated with DNase I under 37°C for 10 min, DAB coloration for 1 min.

By the end of Dec. 2023, there has been **181** SCI publications using Elabscience® TUNEL Apoptosis Detection Kits, and the total IF of the publications has reached **1248.2**, of which the highest IF is **64.5** (*Cell*), and the popular product (One-step TUNEL In Situ Apoptosis Kit (Green, FITC) (E-CK-A320) has been cited 89 times, with a cumulative IF of **603.5**.



Title: Manuscript title: Prolonged sleep deprivation induces a cytokine-storm-like syndrome in mammals

IF: 64.5 Journal: Cell

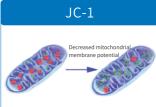
Elabscience® product: One-step TUNEL In Situ Apoptosis Kit (Green, Elab Fluor® 488) (E-CK-A321)

Other Cell Function Detection Assays

[Apoptosis]

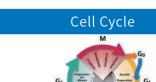


Caspase1/2/3/4/6/7/8/9. For detecting the activation of Caspase protein during apoptosis/pyroptosis.



Using the transition of JC-1 from red fluorescence to green fluorescence to detect the decrease in membrane potential in the early stages of apoptosis.

[Cell Cycle]



Using the property that intracellular DNA can bind to fluorochrome (such as propidium iodide-PI). The DNA content of cells in different stages is different, so the amount of bound fluorescent dye is different.

【Cell Proliferation / Cytotoxicity / Viability】



cells and evenly distribute fluorochrome substances to the next generation to directly detect cell division.

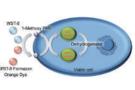


EdU can be integrated into the double-stranded DNA in the synthesis phase and directly reflects cell proliferation by detecting the proportion of cells in S phase.

Calcein AM/PI

Calcein AM labels live cells, and PI labels dead cells. It can detect cell activity and cytotoxicity simply, quickly, sensitively and accurately.

CCK-8



WST-8 to produce water-soluble orange-yellow Formazan, and widely used in cell viability and cytotoxicity testing.

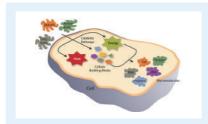
© Cell Metabolism Assay Kits

Leading Brand of Cell Metabolism Assay

Elabscience® consistently focuses on market demand and adheres to research hotspots to provide one-stop solutions for cell metabolism assay. According to the applications, it is categorized by cell component extraction reagents, metabolism assay kits, and inhibitory screening kits to meet different research needs.



Cell Component Extraction Reagent Cellular, protein and multi-component extraction



Metabolism Assay Kit Detection of cellular metabolites, and metabolic functions



Inhibitor Screening Kit Screening of small molecule inhibitors of various enzymes

Cell Metabolism Assay Kit Research Areas



Oxidative Stress



Ferroptosis



Liver & Renal function



Disulfidptosis



Cuproptosis



TCA Cycle



Mitochondria Function



Metabolism



Proteins





Inorganic Ions



Diseases

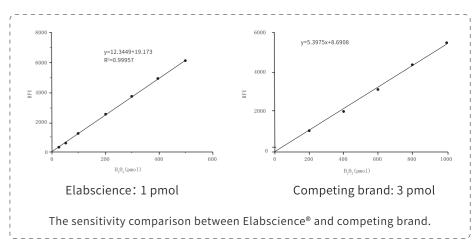
Fluorescence Assay Kits

The fluorescence assay kits adopt the detection principle of "enzyme + fluorescent probe", which improves the sensitivity and specificity of the kits, and solves the problem caused by large amount of cell samples and undetectable indicators.

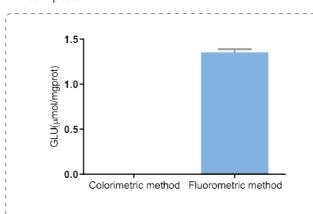
Comparison between colorimetric and fluorescent methods

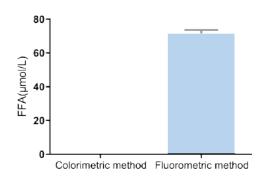
Detection principle		Fluorescence	Colorimetric
Similarities		Molecular spectroscopy	
	Detection spectroscopy	Emission spectroscopy	Absorption spectroscopy
Difference	Sensitivity	10 ⁻⁸ ~10 ⁻¹⁰ g/mL	10 ⁻⁵ ~10 ⁻⁷ g/mL
	Specificity	High	Low
	Platform	Fluorescence Microplate	Microplate Reader/ Spectrophotometer

High performance: Mature manufacturing, performance comparable to famous brands



 \P High sensitivity: It can reach $10^{-8} \sim 10^{-10}$ g/mL, and can detect indicators with lower concentrations in samples.

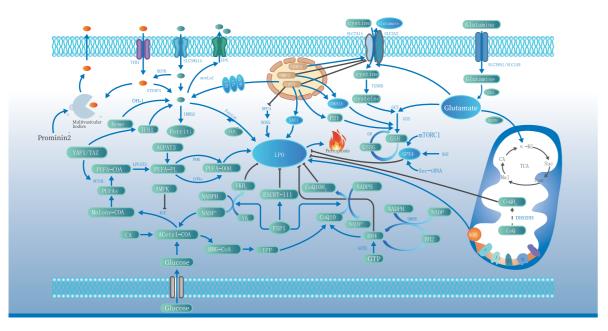




Detection results of Glucose and FFA by colorimetric and fluorescence methods respectively.

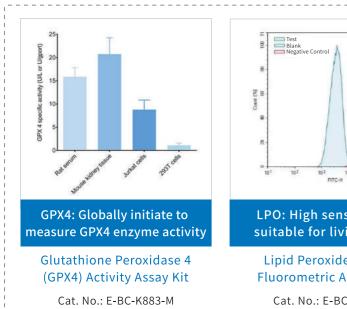
Ferroptosis Assay Kits

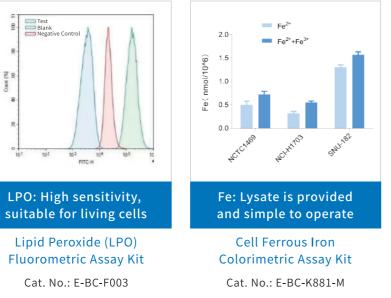
Ferroptosis is a regulated cell death caused by an imbalance in the generation and degradation of intracellular lipid reactive oxygen species. It is iron-dependent, characterized by increased free ferrous ions and accumulation of lipid peroxides. Ferroptosis is one of the most popular research topics in cell death. Elabscience® offers self-developed assay kits to facilitate research on ferroptosis.



Pathway of ferroptosis and related markers

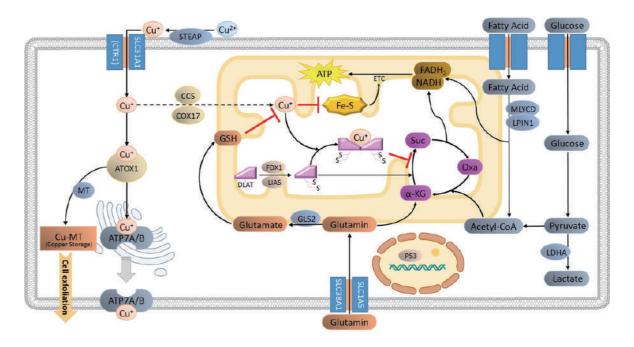
Star Products





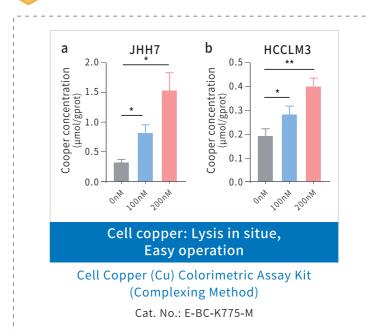
Cuproptosis Asaay Kits

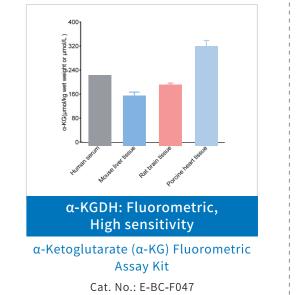
Cuproptosis, which is nominated in 2022, is a newly identified cell death mechanism. It's mainly relied on the accumulation of intracellular copper ions, which directly bind to the acylated components in the TCA cycle to triggers protein toxicity stress, and ultimately induces cell death.



Pathway of cuproptosis and related markers

Star Products





Cell Metabolic Assay Kits Cited in Publications

Elabscience® Cell Metabolism Assay Kits have been cited in **1700+** SCI publications, with **110** publications of IF>10, and the highest IF is **64.8** (*Nature*). It has been published frequently in top journals such as *Cell, Cell Research, Immunity* etc.

IF=64.8



Creatinine (Cr) Colorimetric Assay Kit (Sa rcosine Oxidase Method) Cat No.: E-BC-K188-M

IF=64.5



L-Lactic Acid (LA) Colorimetric Assay Kit Cat No.: E-BC-K044-M

IF=44.1



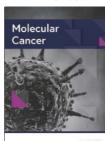
Cysteine (Cys) Colorimetric Assay Kit Cat No. : E-BC-K352-M

IF=43.5



Assay Kit
Cat No.: E-BC-K318-M

IF=37.3



otal Iron Colorim

Cell Total Iron Colorimetric Assay Kit Cat No.: E-BC-K880-M

Featured Cell Metabolic Assay Kits

Research Areas	Cat. No.	Product Name	Detection Instrument
	E-BC-F003	Lipid Peroxide (LPO) Fluorometric Assay Kit	Fluorescence Microplate Reader
	E-BC-F101	Cell Ferrous Iron (Fe ²⁺) Fluorometric Assay Kit	Flow Cytometry
Ferroptosis	E-BC-K881-M	Cell Ferrous Iron Colorimetric Assay Kit	Microplate Reader
	E-BC-K883-M	Glutathione Peroxidase 4 Activity Assay Kit	Microplate Reader
	E-BC-F066	Cystine Uptake Fluorometric Assay Kit	Fluorescence Microplate Reader
	E-BC-F047	α-Ketoglutarate (α-KG) Fluorometric Assay Kit	Fluorescence Microplate Reader
	E-BC-K775-M	Cell Copper (Cu) Colorimetric Assay Kit	Microplate Reader
Cuproptosis	E-BC-K834-M	Cell Mitochondrial Complex I Activity Assay Kit	Microplate Reader
	E-BC-K835-M	Cell Mitochondrial Complex II Activity Assay Kit	Microplate Reader
	E-BC-K836-M	Cell Mitochondrial Complex III Activity Assay Kit	Microplate Reader

Immunoassay Kits and Reagents

More Reliable ELISA Kits!

Elabscience® has been focused on cell detection products for 14 years and provides researchers with more than 2,000 high-quality ready-to-use ELISA Kits and DIY ELISA Antibody Pair Kits and Reagents. Our ELISA products covers human, mouse, rat, rabbit, monkey, universal and other reactive species.

Superior Quality

All Elabscience® ELISA products are manufactured according to ISO 9001:2015 and are guaranteed by a strict quality control system.

Raw Material

Professional antibody & protein development and production platform for ELISA products to continue to supply high-quality and stable raw materials.

Production

Automated production equipment, international standard production process.

Accurately control the freeze-drying curve to reduce production errors.

Quality Inspection

Strict three-step quality inspection to ensure the stability of the system, quality and quantity.

□ Reagent

- · Improved coating system to reduce coated protein damage.
- Unique HRP enzyme protection solution to avoid data fluctuation.

Package

- Aluminum foil bags are carefully selected and subjected to low-temperature simulation anti-fall experiments.
- The product has a traceable security code, which can be directly traced to each production link.

Quality Control Standard

Standard Linearity R²≥0.995.

Sensitivity

The low concentration target sensitivity reaches fg/pg level.

Precision

Intra-batch & inter-batch CV≤10%.

Recovery Rate

Addition & dilution recovery rates range from 80% to 120%.

Specificity

- · Cross-reaction rate of structural analogues<10%.
- · Cross-reaction rate of samples between different species<10%.

Stability

Through thermal acceleration stability, long-term stability and transportation stability tests, the kit has good stability within the validity period.

Sample Test

- · Human source kits: serum, plasma, cell supernatant & lysate, saliva, urine, and milk, etc.
- · Mouse and Rat kits: serum, plasma, cell supernatants & lysates, tissue homogenates (heart, liver, spleen, lung, kidney, brain), etc.
- •The sample testing is basically consistent with authoritative literature reports.

Customer Oriented

New Product Development is Guided by Customer Needs



Traditional ELISA

2009

 Double-antibody sandwich method and competition method are used to develop more ELISA indicators.

• QuicKey ELISA® kit optimizes the 3 steps sandwich method to 2 steps.
• In the early stages of the COVID-19 epidemic, a number of SARS-CoV-2 antigen and antibody detection kits were developed to meet the needs of disease-related scientific research in a timely manner.

QuicKey

QuicKey

ELISA®

© 2 steps
© Easy to store

© Contains Ag, Ab,NAb,TAb

• QuicKey Pro™ (One-Step) ELISA kit helps customers complete ELISA experiments in 90 minutes.
• Micro-method MS ELISA kit can save 75% of sample consumption.

QuicKey Pro™

QuicKey Pro™

Seasy to store

• QuicKey Pro™

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Seasy to store

2023

- · Cytokine High-Sensitivity (HS) ELISA kit can detect target at fg-level.
- Uncoated ELISA kit and ELISA Antibody Pair have become a cost-effective alternative in cell secreted protein detection by flexibly adjusting the antibody ratio and matching various auxiliary reagents.



High-Sensitivity ELISA

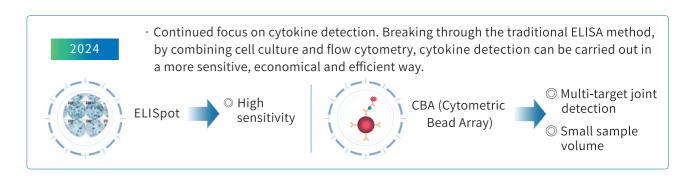
- Sensitivity increased by 2~100 times
- Sample detection rate 30%~100%
- Uncontrol

Uncoated ELISA

- © Core raw materials
- $\ensuremath{\bigcirc}$ Matching ancillary reagent kit

ELISA Antibody Pair

Antibodies to raw materials



Target Selection is Guided by Customer Needs

Our ELISA kits are widely used in more than 10 hot research areas, such as Cancer & Tumor, Immunology, Cardiovascular, Stem Cell, Neuroscience, Metabolism, Microbiology, Cell Biology, Signaling Transduction, Epigenetics and Nuclear Signaling and so on.

System Optimization is Guided by Customer Needs

🖧 Stability

We continue to optimize the reagent component system to improve the stability of the kit under different preservation conditions:

- \odot For the kits stored at 2~8°C/-20°C (12 months), the overall storage time at 2~8°C was increased from 1 week to 3 months.
- © The new series ELISA kit is prioritized to be developed with overall 2~8°C (6 months) storage system.

Safety

Apart from BSA as a protective protein, the kit does not contain any other ingredients of animal origin, which meets the requirements of the Cartagena Biosafety Protocol.

In addition, the preservative of the kit is proclin 300, which is less toxic, making it safe and environmentally friendly.

Authoritative Recognition

- · CiteAb recognized Elabscience® as the "ELISA KIT SUPPLIER TO WATCH IN 2019".
- \cdot Elabscience $^{\circ}$ ELISA products have been cited in over $10,\!000$ SCI papers, featured in top-tier journals like Nature Medicine, Nature, Cell, Immunity, Signal Transduction and Targeted Therapy, etc.





Efficient Service

- Ready-to-use products with guaranteed stock, shipped within 2 to 3 business days.
- · Professional technical support responds within 8 h and provides solutions within 24 h.
- · The market service is thoughtful and fast, and more technical resources are shared to escort the entire experiment.

Elabscience® Hot Selling ELISA Kits

Cat. No.	Product Name	Detection Range	Sensitivity
E-EL-0033	ST/5-HT(Serotonin/5-Hydroxytryptamine) ELISA Kit	15.63~1000 ng/mL	9.38 ng/mL
E-EL-0162	TGF-β1(Transforming Growth Factor Beta 1) ELISA Kit	0.16~10 ng/mL	0.10 ng/mL
E-EL-H6156	Human IL-6(Interleukin 6) ELISA Kit	1.56~100 pg/mL	0.94 pg/mL
E-EL-H0109	Human TNF-α(Tumor Necrosis Factor Alpha) ELISA Kit	7.81~500 pg/mL	4.69 pg/mL
E-EL-M0037	Mouse IL-1β(Interleukin 1 Beta) ELISA Kit	7.81~500 pg/mL	4.69 pg/mL
E-EL-M0044	Mouse IL-6(Interleukin 6) ELISA Kit	31.25~2000 pg/mL	18.75 pg/mL
E-EL-M3063	Mouse TNF-α(Tumor Necrosis Factor Alpha) ELISA Kit	7.81~500 pg/mL	4.69 pg/mL
E-EL-R0012	Rat IL-1β(Interleukin 1 Beta) ELISA Kit	31.25~2000 pg/mL	18.75 pg/mL
E-EL-R0015	Rat IL-6(Interleukin 6) ELISA Kit	12.50~800 pg/mL	7.50 pg/mL
E-EL-R2856	Rat TNF-α(Tumor Necrosis Factor Alpha) ELISA Kit	15.63~1000 pg/mL	9.38 pg/mL

For more ELISA targets, please visit our website: www.elabscience.com

M Antibodies & Proteins

Strictly Validated High-quality Proteins & Antibodies

Elabscience® provides high-quality recombinant proteins, strictly validated monoclonal and polyclonal antibodies, and antibody-related products, covering immunoprecipitation and protein purification (agarose/magnetic beads), antibodies (primary antibodies of scientific research, antibody pairs, unlabeled flow antibodies, tag/loading control antibodies, secondary antibodies, and other special types of antibodies, etc.), and proteins. All various products have a wide range of applications and have been recognized in domestic top laboratories and research institutions.

Basing on the company's powerful protein and antibody R&D platforms, Elabscience® will continue to launch a series of high-quality of innovative scientific research and clinical diagnostic antibody products for the majority of scientific research customers and units.

- High-quality Antibody Development Platform
- Active Protein Preparation Platform
- Development of Multiple Reagent Raw Materials

Immunoprecipitation & Protein Purification



Agarose



Magnetic Beads







mmunoprecipitation



Tag Antibodies Agarose/ Magnetic Beads



Other Agarose/Magnetic **Beads Products**



Highly specific binding to target proteins, few false-positive and false-negative.

A Wide Range of Applications

Applications covering IP, Co-IP, pull-down, protein purification are suitable for diversified experimental solutions.

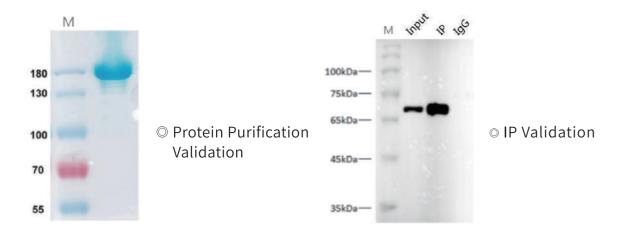


(R) Efficient and Convenient

Efficient binding capacity, low nonspecific adsorption, simple and convenient operation, as little as 40 min of an IP process.

= Flexibility and Cost-effectiveness

Products are on-demand configuration, flexible selection and more costeffective.



Antibodies

Antibody Pairs

Unlabeled Flow Antibodies

Tag Antibodies

Loading Control Antibodies

Secondary Antibodies

Other Antibodies

Advantages

Diversified product types

- · Full-length antibodies: mAb/pAb/rAb etc.
- · Antibody fragments: scFv/Fab/VHH etc.
- ·Antibody pairs/ Unlabeled Flow Cytometry antibodies/ Tag antibodies/ Loading control antibodies/ Secondary antibodies/ Modified antibodies, etc.

Rigorous quality control

- Standardized acceptance process.
- Multiple validation methods (ELISA/WB/IHC/IF, etc.).
- Validation by natural protein samples.

Wide range of applications

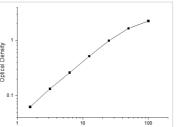
- Multiple species reactivity.
- Diversified applications of WB/IHC/IF/ELISA/IP/ FCM etc.
- Raw materials development of POCT/ Pathologic Diagnosis/ FCM/ Cytometric Bead Array.

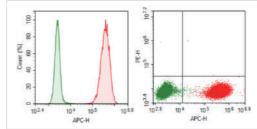
(0)**Excellent quality**

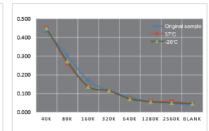
- ·Selected and designed high-quality immunogens.
- ·Industry-leading validation methods.

Comprehensive sales services

- Long run supply of self-developed and produced core raw materials.
- Complete, genuine and valid product information.
- Professional technical support and guidance.



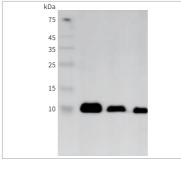


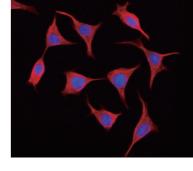


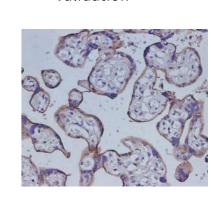
O Antibody Pairs (standard curve) Validation

Antibody Sensitivity (FCM) Validation

Antibody Stability Validation







WB Validation

O IF Validation

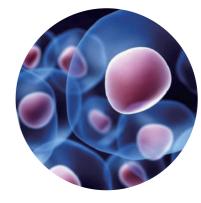
IHC Validation

Elabscience® antibodies are strictly tested using a variety of detection methods to ensure their quality and guarantee the accuracy of the results.

Proteins







Prokaryotic Recombinant Protein

Eukaryotic Recombinant Protein

Elabscience® executes strict quality standards and provides high purity, high consistency, and high activity recombinant proteins to support your scientific research of protein structure and function, cell culture and function testing, antibodies and immunoassay reagent development, biological drug target discovery etc.

Recombinant Protein Advantages

01

Comprehensive expression system

- · Prokaryotic: E. coli
- · Eukaryotic: HEK293/CHO, yeast, insect cell baculovirus.

Rigorous quality control

- · Professional quality control team.
- · Multiple testing indicators and continuous quality tracking and monitoring.
- · Stable mass production.

02

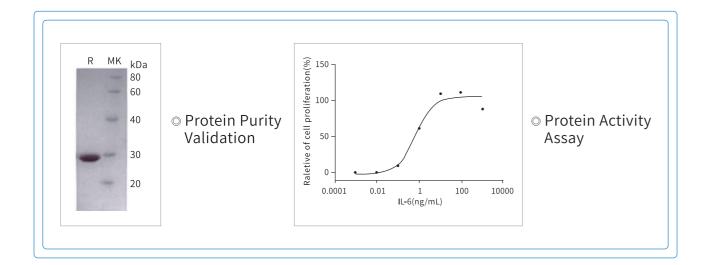
High quality proteins

- ·High purity and endotoxin < 1 EU/ μ g.
- $\cdot\,\mbox{No}$ component of animal origin.

04

Excellent pre-sales and post-sales service

Professional technical support team contributes to solve problems.



Protein & Antibody Related Reagents

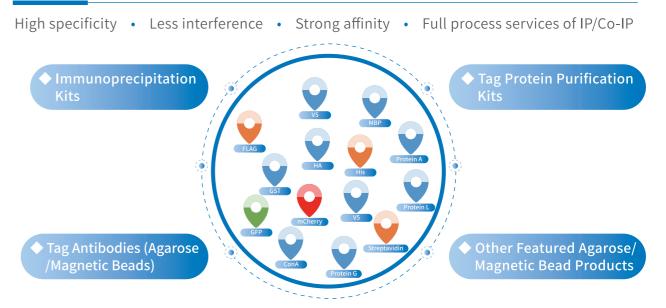


Elabscience®

Elabscience® provides a complete range of WB, IF, IHC kits and experimental detecting technology solutions, contributing to save time and keep reliable and efficient in scientific research.

Antibody & Protein Products Introduction

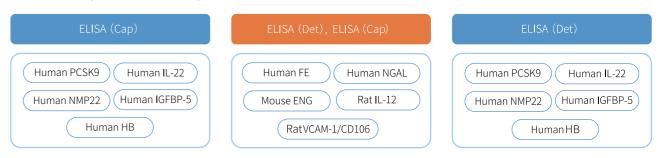
Immunoprecipitation & Protein Purification (Agarose/Magnetic Beads)



Antibodies

ELISA Antibody Pairs

- ·Various kinds of markers of human, mouse and rat.
- · Flexible pair set of capture and detection antibodies.



Unlabeled Flow Antibodies

· Focus on CD antigen series to assist cell immunology research and create highquality raw materials for Flow Cytometry.



Tag and Loading Control Antibodies/Other Scientific Antibodies

- · Multiple advanced applications (WB/IF/IHC/IP/FCM)
- · High specificity

· Excellent sensitivity

·Strict reliability testing

Tag Antibodies

Loading Control Antibodies

Other Scientific Antibodies

- His-Tag Polyclonal Antibody
- GST-Tag Monoclonal Antibody
- GFP Monoclonal Antibody
- HA-Tag Monoclonal Antibody
- PCNA Polyclonal Antibody
- GAPDH Polyclonal Antibody
- beta actin Polyclonal Antibody
- beta Tubulin Polyclonal Antibody
- CDH1 Polyclonal Antibody
- TNNI3/cTn-I Polyclonal Antibody

Proteins

One-stop service from gene synthesis, vector construction to protein expression and purification

Prokaryotic recombinant protein(*E.coli*)

- Recombinant Human BIM/BCL2L11 Protein (His Tag) (PDEH100013)
- Recombinant Human PTEN Protein (His Tag) (PDEH100023)
- Recombinant Human PUMA/BBC3 protein (His Tag) (PDEH100035)

Eukaryotic recombinant protein (HEK293)

- Recombinant Human Interferon γ/IFNG Protein (PDEH100010)
- Recombinant Human Myeloperoxidase/MPO Protein (His Tag)(PDEH100014)
- Recombinant Human Coagulation Factor XIII B chain/ F13B protein (His tag)(PDEH100073)

Immuno-Related Reagents

- Easy to Use Excellent Sensitivity
- A complete range of related kits and experimental detecting technology solutions contribute to save time and scientific researches.
- 2-step plus Poly-HRP Anti Rabbit/Mouse IgG Detection System(E-IR-R211)

 2-step plus Poly-HRP Anti Goat IgG Detection System(With DAB Solution)
 - (E-IR-R214)
 - Western Blot Detection Kit(E-IR-R304A)
 - High Accuracy and Absorbability Western Blot Detection Kit(E-IR-R304B)

 Immunol Fluorescence Staining Kit (Anti-Rabbit IgG-Cyanine3) (E-IR-R321)
 - Immunol Fluorescence Staining Kit (Anti-Rabbit IgG-Cyanines) (E-IR-R321)
 Immunol Fluorescence Staining Kit (Anti-Rabbit IgG-Cyanines) (E-IR-R322)

Part of High IF Publications

Cited by 150,000+ SCI papers, Elabscience® products continue to support scientific research

■ Elabscience® Flow Cytometry Antibodies Cited in Publications

Target	Cat. No.	Publication Information	IF
PE Anti-Mouse CD54 Antibody[YN1/1.7.4]	E-AB-F1018D	Born E, Lipskaia L, Breau M, et al. Eliminating senescent cells can promote pulmonary hypertension development and progression[J]. <i>Circulation</i> , 2023, 147(8): 650-666.	37.8
APC Anti-Mouse CD62L Antibody[Mel14]	E-AB-F1011E	Che Y J, Ren X H, Wang Z W, et al. Lymph-Node-Targeted Drug Delivery for Effective Immunomodulation to Prolong the Long-Term Survival After Heart Transplantation[J]. <i>Advanced Materials</i> , 2022.	32.1
PE Anti-Mouse CD106 Antibody[M/K-2.7]	E-AB-F1091D		
APC Anti-Mouse Ly6A/E(Sca-1) Antibody[D7]	E-AB-F1191E	Shi N N, Yang Q, Zhang H R, et al. Restoration of dystrophin expression	
PE/Cyanine7 Anti-Mouse CD31 Antibody[390]	E-AB-F1180H	in mice by suppressing a nonsense mutation through the incorporation of unnatural amino acids[J]. <i>Nature Biomedical Engineering</i> ,	25.7
PE Anti-Human CD56/NCAM Antibody[5.1H11]	E-AB-F1239D	2022, 6: 195–206.	
FITC Anti-Human CD29 Antibody[TS2/16.2.1]	E-AB-F1049C		
PerCP/Cyanine5.5 Anti-Rat CD45 Antibody[OX-1]	E-AB-F1227UJ	Tianyuan Z, Haoyuan D, Jianwei L, et al. A Smart MMP13 - Responsive Injectable Hydrogel with Inflammatory Diagnostic Logic and Multiphase Therapeutic Ability to Orchestrate Cartilage Regeneration[J]. Advanced Functional Materials, 2023, 33(16): 2213019.	19.9
APC Anti-Mouse F4/80 Antibody[CI:A3-1]	E-AB-F0995E		
PE/Cyanine7 Anti-Mouse CD80 Antibody[16-10A1]	E-AB-F0992H	Zhu P P, Zhou C, Chen J F, et al. Propionibacterium acnes Cloaked	
FITC Anti-Mouse CD206/ MMR Antibody[C068C2]	E-AB-F1135C	with ZnAl Layered Double Hydroxides Synergistically Inhibits Tumor Growth and Metastasis[J]. Advanced Functional Materials, 2023,	19.9
Elab Fluor® Violet 450 Anti- Mouse CD3 Antibody[17A2]	E-AB-F1013Q	33(25): 2214105.	
PerCP/Cyanine5.5 Anti-Mouse CD8a Antibody[53-6.7]	E-AB-F1104J		
FITC Anti-Mouse/Human CD11b Antibody[M1/70]	E-AB-F1081C	Zhao F, He J, Tang J, et al. Brain milieu induces early microglial maturation through the BAX-Notch axis[J]. <i>Nature Communications</i> , 2022, 13(1): 6117.	17.7

Elabscience® Cell Function Assay Kits Cited in Publications

Target	Cat. No.	Publication Information	IF
One-step TUNEL In Situ Apoptosis Kit (Green, Elab Fluor® 488)	E-CK-A321	Sang D, Lin K, Yang Y, et al. Prolonged sleep deprivation induces a cytokine-storm-like syndrome in mammals[J]. <i>Cell</i> , 2023, 186(25): 5500-5516.	64.5
Annexin V-FITC/PI Apoptosis Kit	E-CK-A211	Jiang M, Qi F, Zhang K, et al. MARCKSL1–2 reverses docetaxel-resistance of lung adenocarcinoma cells by recruiting SUZ12 to suppress HDAC1 and elevate miR-200b[J]. <i>Molecular Cancer</i> , 2022, 21(150).	41.4
Enhanced Cell Counting Kit 8 (WST-8/CCK8)	E-CK-A362	Song R, Guo P, Ren X, et al. A novel polypeptide CAPG-171aa encoded by circCAPG plays a critical role in triple-negative breast cancer[J]. <i>Molecular Cancer</i> , 2023, 22(1): 104.	37.3
One-step TUNEL In Situ Apoptosis Kit (Green, FITC)	E-CK-A320	Hirakawa H, Gao L, Tavakol D N, et al. Cellular plasticity of the bone marrow niche promotes hematopoietic stem cell regeneration[J]. <i>Nature Genetics</i> , 2023, 55(11): 1941-1952.	30.8
Annexin V-Elab Fluor® 647 /DAPI Apoptosis Kit	E-CK-A254	Song J L, Xu R Y, Zhang H, et al. Cell-in-Cell–Mediated Entosis Reveals a Progressive Mechanism in Pancreatic Cancer[J]. <i>Gastroenterology</i> , 2023.	29.4
One-step TUNEL In Situ Apoptosis Kit (Red, Elab Fluor® 555)	E-CK-A325	Sanchez A S, Perez S M, Liu M Y, et al. Activation of regulatory dendritic cells by Mertk coincides with a temporal wave of apoptosis in neonatal lungs[J]. <i>Science Immunology</i> , 2023, 8(84).	24.8

Elabscience® Metabolic Assay Kits Cited in Publications

Target	Cat. No.	Publication Information	IF
Creatinine (Cr)	E-BC-K188-M	Xu W, Li G, Chen Y, et al. A novel antidiuretic hormone governs tumour-induced renal dysfunction[J]. <i>Nature</i> , 2023, 624, 425–432.	64.8
Urea (BUN)	E-BC-K183-M		
L-Lactic Acid (LA)	E-BC-K044-M	Meng J J, Shen J W, Li G, et al. Light modulates glucose metabolism by a retina-hypothalamus-brown adipose tissue axis[J]. <i>Cell</i> , 2023,186(2): 398-412.	64.5
Non-esterified Free Fatty Acids (NEFA/FFA)	E-BC-K013-S		
Cysteine (Cys)	E-BC-K352-M	Song T T, Qin W S, Lai Z L, et al. Dietary cysteine drives body fat loss via FMRFamide signaling in Drosophila and mouses[J]. <i>Cell Research</i> , 2023, 33: 434–447.	44.1
Non-esterified Free Fatty Acids (NEFA/FFA)	E-BC-K013-M	Wang X, He Q, Zhou C, et al. Prolonged hypernutrition impairs TREM2-dependent efferocytosis to license chronic liver inflammation and NASH development[J]. <i>Immunity</i> , 2023, 56(1): 58-77.	43.5
Cell Ferrous Iron	E-BC-K880-M	Jiang M , Jike Y , Liu K ,et al.Exosome-mediated miR-144-3p promotes ferroptosis to inhibit osteosarcoma proliferation, migration, and invasion through regulating ZEB1[J]. <i>Molecular Cancer</i> , 2023.	37.3
BCA Protein	E-BC-K318-M	Chen X, Wu R, Li L, et al. Pregnancy-induced changes to the gut microbiota drive macrophage pyroptosis and exacerbate septic inflammation[J]. <i>Immunity</i> , 2023, 56(2): 336-352.	32.4

Elabscience® ELISA Kits Cited in Publications

Target	Cat. No.	Publication Information	IF
EPI	E-EL-0045	Meng J J, Shen J W, Li G, et al. Light modulates glucose metabolism by a retina-hypothalamus-brown adipose tissue axis[J]. <i>Cell</i> , 2023,186(2): 398-412.	66.9
NA/NE	E-EL-0047		
Mouse CORT	E-OSEL-M0001		
Mouse GC	E-EL-M0555		
Mouse GHRL	E-EL-M0551		
Mouse GLP-1	E-EL-M3012		
Mouse OXA	E-EL-M0860		
cGMP (Cyclic GMP)	E-EL-0083	Xu W, Li G, Chen Y, et al. A novel antidiuretic hormone governs tumour-induced renal dysfunction[J]. <i>Nature</i> , 2023, 624, 425–432.	64.8
Mouse ADH	E-EL-M0106		
Mouse ALB	E-EL-M3032		
Mouse BMG/β2-MG	E-EL-M2411		
Human F8(Coagulation Factor VIII)	E-EL-H6116	Kaffe E, Roulis M, Zhao J, et al. Humanized mouse liver reveals endothelial control of essential hepatic metabolic functions[J]. <i>Cell</i> , 2023,186(18): 2793-3809.	64.5
Rat ApoE	E-EL-R1230	Guttenplan, K.A., Weigel, M.K., Prakash, P., et al. Neurotoxic Reactive Astrocytes Induce Cell Death via Saturated Lipids[J]. <i>Nature</i> , 2021, 599(7883): 102-107.	50.0
Mouse ADH	E-EL-M0106	Bi Q Q , Wang C, Cheng G, et al. Microglia-derived PDGFB promotes neuronal potassium currents to suppress basal sympathetic tonicity and limit hypertension[J]. <i>Immunity</i> , 2022, 55(8): 1466–1482.	43.5
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Elabscience® Proteins and Antibodies Cited in Publications

Target	Cat. No.	Publication Information	IF
CYP26B1 Polyclonal Antibody	E-AB-90357	Correa-Gallegos, D., Ye, H., Dasgupta, B. et al. CD201+ fascia progenitors choreograph injury repair[J]. <i>Nature</i> , 2023, 623(7988): 792-802.	64.8
Goat Anti-Mouse IgG(H+L) (peroxidase/HRP conjugated)	E-AB-1001	Yuan Y, Cheng S, Bian G, et al. Efficient exploration of terpenoid biosynthetic gene clusters in filamentous fungi[J]. <i>Nature Catalysis</i> , 2022, 5(4): 277-287.	41.8
Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	E-AB-1003		
2-step plus Poly-HRP Anti Rabbit/Mouse IgG Detection System (with DAB Solution)	E-IR-R213	Luo J H, Yang Q, Zhang X F, et al. TFPI is a Colonic Crypt Receptor for TcdB from Hypervirulent Clade 2 C. Difficile[J]. <i>Cell</i> , 2022, 185: 980.	41.6
Recombinant Mouse HMGB1/ HMG1 Protein (Fc Tag)(Active)	PKSM040443	Roquilly A, Jacqueline C, Davieau M, et al. Alveolar Macrophages are Epigenetically Altered after Inflammation, Leading to Long-Term Lung Immunoparalysis[J]. <i>Nature Immunology</i> , 2020: 1-13.	20.5

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