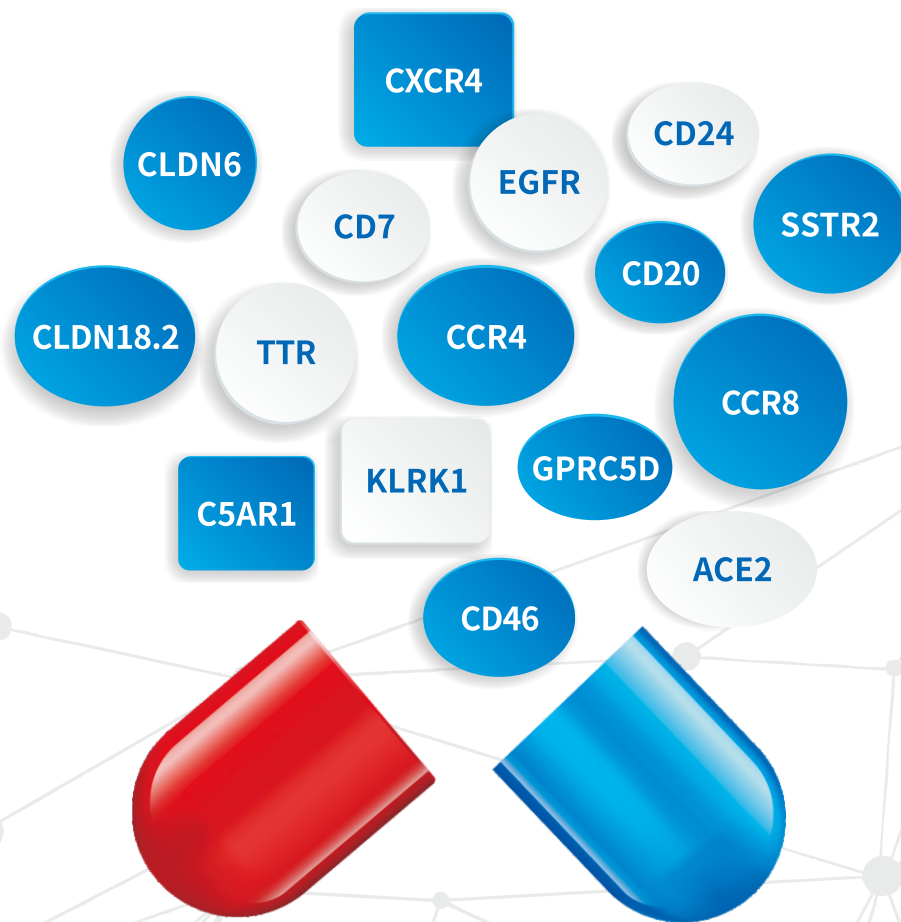


# DRUG TARGET PROTEIN

FACILITATE DRUG DEVELOPMENT



The advent of every new drug is inseparable from a deep understanding of the mechanism of disease. CUSABIO TECHNOLOGY LLC, a biological high-tech enterprise integrating scientific research, production and sales, was established in December 2007. CUSABIO has a number of advanced core technologies and is committed to providing high-quality products and high-level technical services for global universities, government research institutions and biopharmaceutical companies.

Currently, CUSABIO provides recombinant proteins, antibodies, genes, kits and other products, as well as recombinant protein and antibody development services. Among them, CUSABIO protein products cover disease-related drug target antigens and biomarkers from Human to other common species. The kit products cover more than 20 species, involving more than a dozen research fields such as tumors, hormones, autoimmunity, cardiovascular, and metabolism.

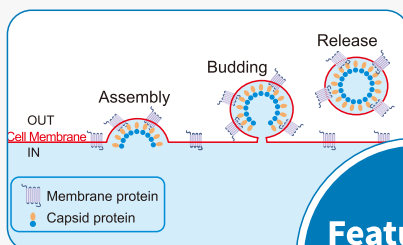
## CUSABIO Protein Expression Platform

Drug development is a long process, including target discovery and verification, target lead molecule screening, lead molecule in vitro and in vivo performance evaluation, preclinical and clinical trial research. Among them, the discovery and verification of drug targets are the key and difficult points in the new drug discovery stage. Most of the drug targets are mainly in the form of protein.

CUSABIO has 17 years of experience in recombinant protein expression and can provide one-stop services from gene synthesis, vector construction to protein expression and purification. Based on the traditional five recombinant protein expression systems (E. coli, Yeast, Insect Baculovirus, Mammalian cell and In vitro E.coli systems.), CUSABIO has now launched four dominant protein expression platforms for drug target proteins, namely Virus-like Particles (VLPs), Detergent Micelle, Nanodisc and Nanoparticle platforms.

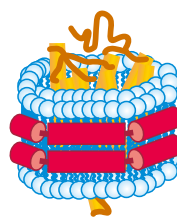
### Virus-like particles (VLPs) platform - Transmembrane proteins (TPs)

- Display the natural conformation of TPs with complete biological activity
- Improve immunogenicity and break the body's own immune tolerance
- Higher abundance of target antigen than that of overexpression cells
- Best target for phage display with its size of 100-200nm
- Can be applied to immunization/ELISA/SPR/BLI/CAR-T positive rate detection

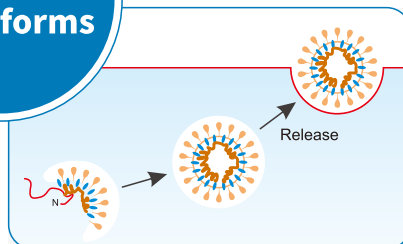
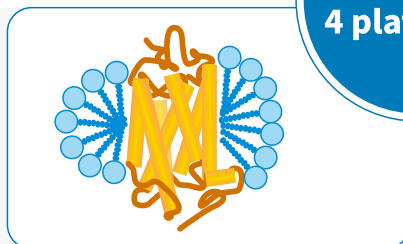


### Nanodisc Platform - Transmembrane proteins (TPs)

- Similar to the cell membrane environment, displaying complete conformation and maintaining biological activity
- Does not contain detergents, suitable for experiments that interfere with detergents
- Can be used for various display library screening
- Can be applied to immunization/ELISA/SPR/BLI/CAR-T positive rate detection



### Features of 4 platforms



### Detergent Micelle Platform - Transmembrane proteins (TPs)

- Can express full length TPs, not only limited to ECD epitopes
- Accurate quantification, different from VLP and Nanodisc platforms
- Can be applied to immunization/ELISA/SPR/BLI

### Nanoparticle Platform-Small molecular weight protein

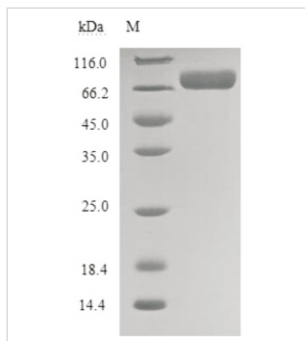
- Display natural conformation with complete biological activity
- Can enhance immune response
- Can be used for various display library screening
- Can be applied to immunization/ELISA/SPR/BLI/cell experiments

# CUSABIO Drug Target Protein

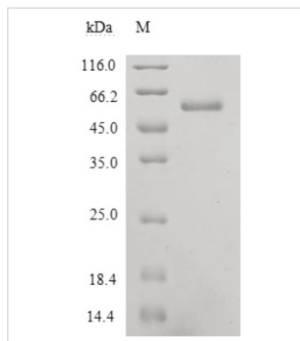
The quality of our proteins is the cornerstone of our ability to serve our clients. For this reason, we invest tremendous resources in developing proteins, validating their applications, managing, controlling and improving quality. Each protein will undergo our standardized quality control processes before shipped.

- **Low endotoxin:** Detected by LAL method, the endotoxin level is lower than 1 EU/μg
- **High quality:** High biological activity, high purity, small batch-to-batch variation
- **Short delivery time:** All proteins are in stock and can be shipped within 2-3 business days

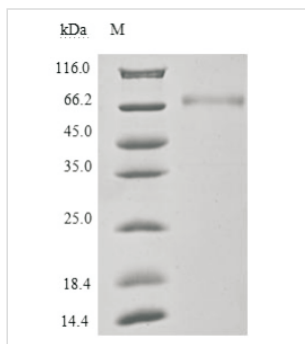
## High purity



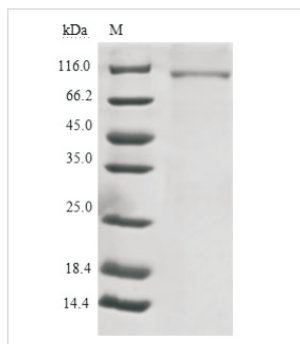
The purity of Recombinant Human EPHA3 (CSB-MP007723HU) is greater than 95% as determined by SDS-PAGE.



The purity of Recombinant Human EFNA5 (CSB-MP007464HU) is greater than 93% as determined by SDS-PAGE.

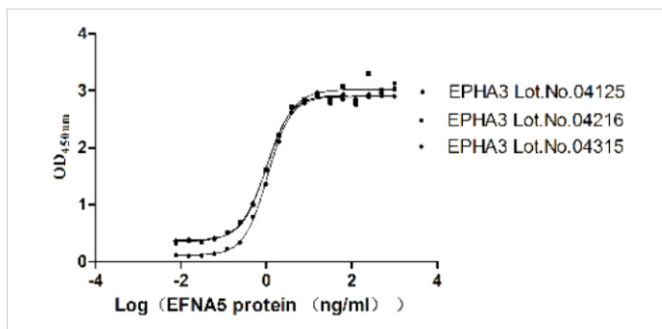


The purity of Recombinant Human CD274 (PD-L1) (CSB-MP878942HU1) is greater than 95% as determined by SDS-PAGE.



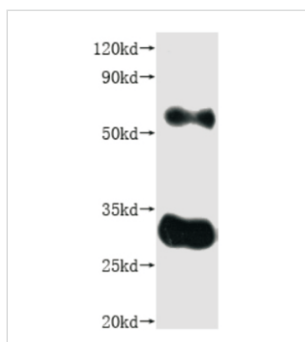
The purity of Recombinant Human CD22 (CSB-MP004900HU) is greater than 94% as determined by SDS-PAGE.

## Small batch-to-batch variation

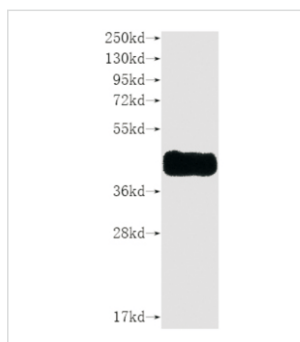


As the left ELISA analysis shows that three different batches of Human EPHA3 (CSB-MP007723HU) were detected with Human EFNA5 Protein (CSB-MP007464HU), the batch variation among the tested samples is negligible.

## High specificity

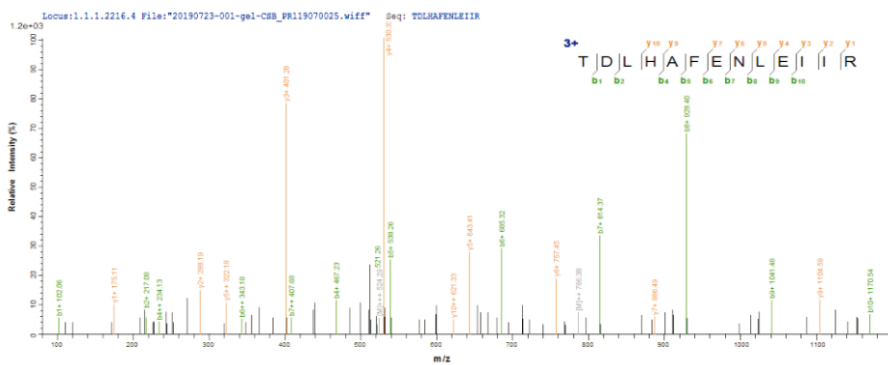
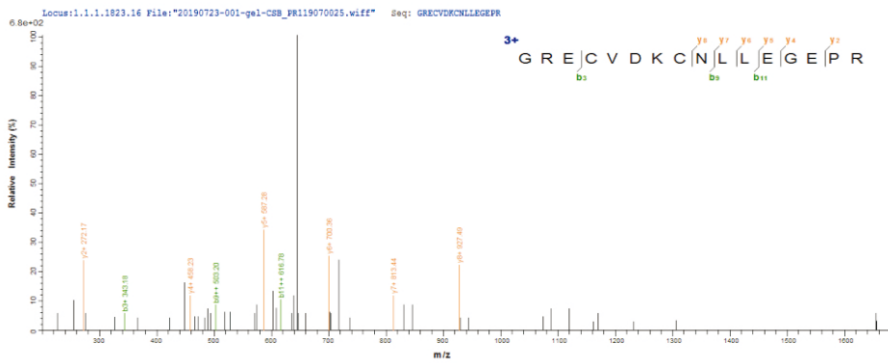
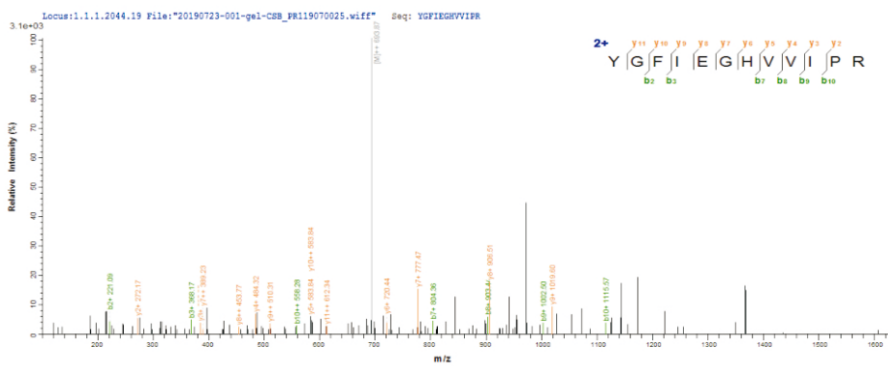
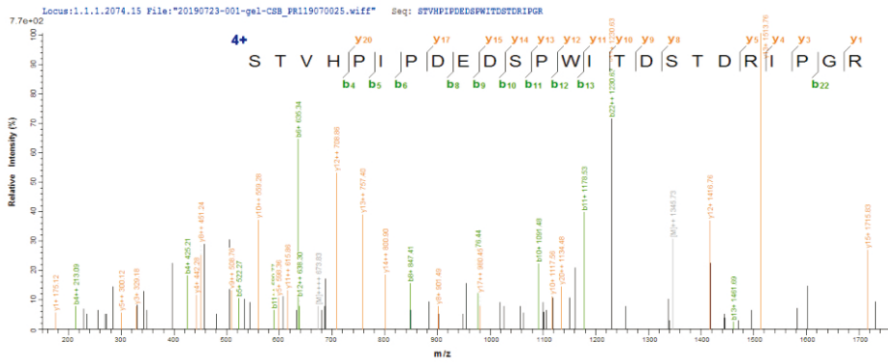


Human CLDN18.2 (CSB-MP005498HU(A5)) is detected by anti-Claudin 18 antibody. The two bands respectively correspond to monomer and homodimer.



Human CCR8 (CSB-MP004847HU) is detected by anti-CCR8 recombinant antibody.

# LC-MS/MS analysis



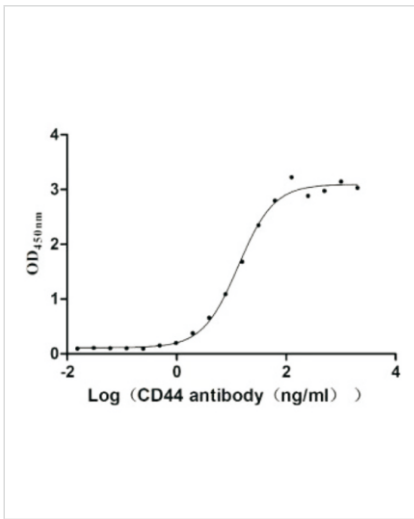
Based on the SEQUEST from sequence database of the host and target protein of the Mammalian cell expression system, the MS/MS analysis result of CSB-MP004938HU(F1) shows that this protein can be identified as the Human CD44 protein expressed from the Mammalian cell expression system.

Based on the SEQUEST from sequence database of the host and target protein of the Mammalian cell expression system, the MS/MS analysis result of CSB-MP007479HU shows that this protein can be identified as the Human EGFR protein expressed from the Mammalian cell expression system.

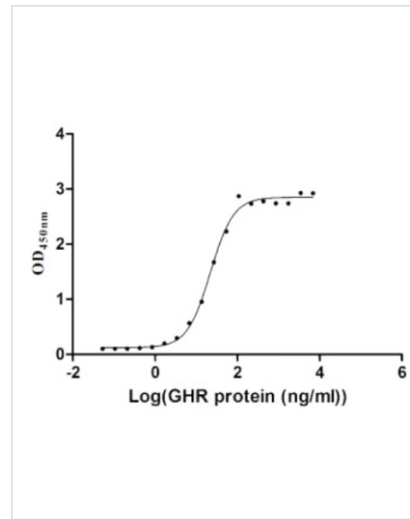
## High bioactivity

CUSABIO drug target proteins have been verified by a variety of methods and can be applied to various application scenarios and test platforms.

### Functional ELISA

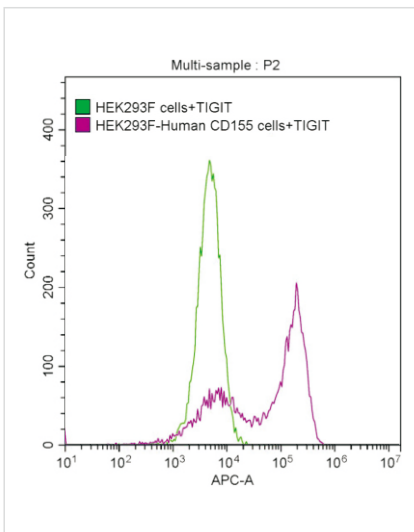


The binding activity of antibody. Immobilized CD44 (CSB-MP004938HU (F1)) at 2  $\mu\text{g/ml}$  can bind anti-CD44 mouse monoclonal antibody(CSB-MA004938A0m), the  $\text{EC}_{50}$  of the CD44 protein is 11.89-14.94 ng/mL.

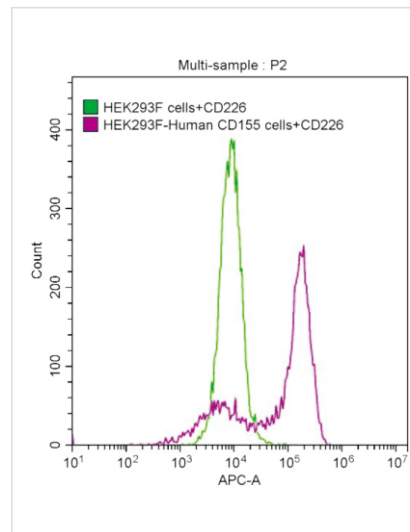


The binding activity of receptor. Immobilized GH1 (CSB-MP009407HU) at 1  $\mu\text{g/ml}$  can bind human GHR (CSB-MP009411HU), the  $\text{EC}_{50}$  of the protein is 19.28-25.29 ng/mL.

### FACS

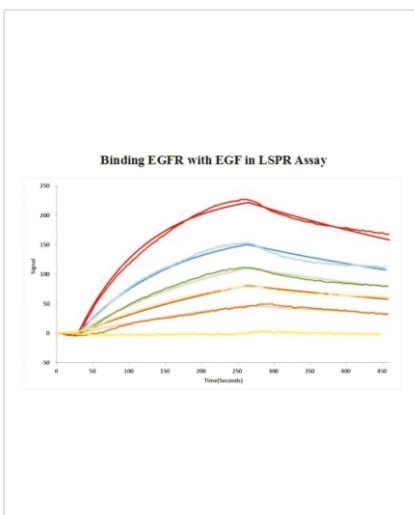


The binding activity of cell. FACS assay shows that Human TIGIT (CSB-MP675446HU) can bind to 293F cell overexpressing human CD155.

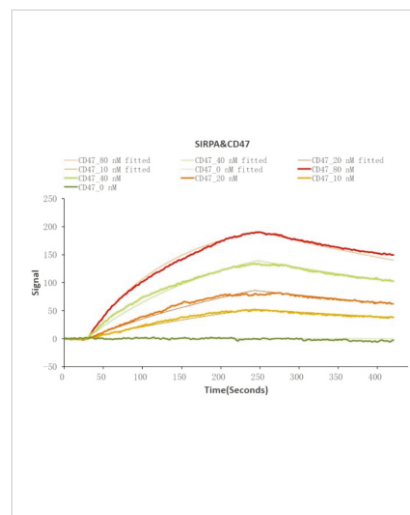


The binding activity of cell. FACS assay shows that Human CD226 (CSB-MP618996HU) can bind to 293F cell overexpressing human CD155.

### LSPR



The affinity between ligand and receptor. Human EGF protein captured on COOH chip can bind Human EGFR protein (CSB-MP007479HU) with an affinity constant of 11.9 nM.

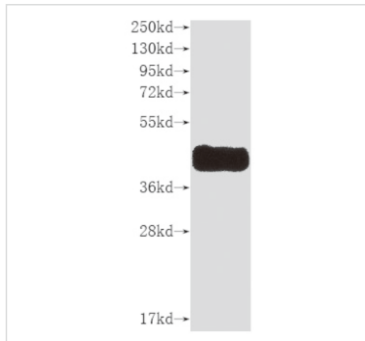


The affinity between ligand and receptor. Human SIRPA (CSB-MP021334HU) captured on COOH chip can bind Human CD47 (CSB-MP004940HU) with an affinity constant of 19.1 nM.

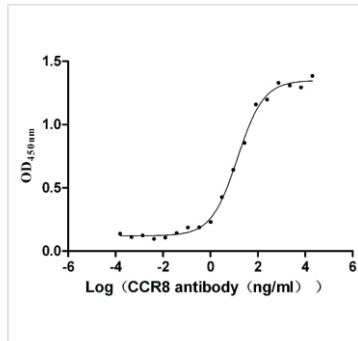
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► Recombinant Human CCR8-VLPs (7 times transmembrane) (CSB-MP004847HU)

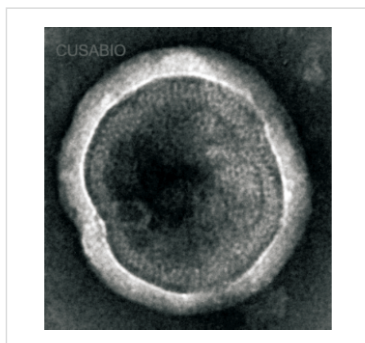
**CCR8** is a chemokine receptor that is highly expressed in tumor-infiltrating Tregs, and can be used as a biomarker for Treg cells at tumor sites. CCR8 is specifically expressed on Tregs in tumor sites, but is not expressed on Tregs in peripheral blood or normal tissues. CCR8 is a very potential tumor treatment target.



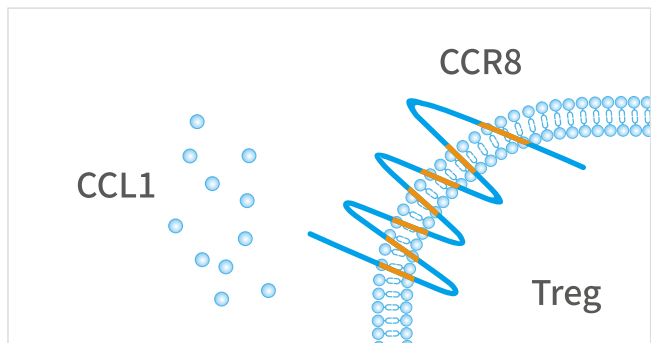
Human CCR8 is detected by anti-CCR8 recombinant antibody.



Measured by its binding ability in a functional ELISA. Immobilized human CCR8 at 5 µg/ml can bind anti-CCR8 recombinant antibody, the EC<sub>50</sub> is 11.13-17.29 ng/mL.

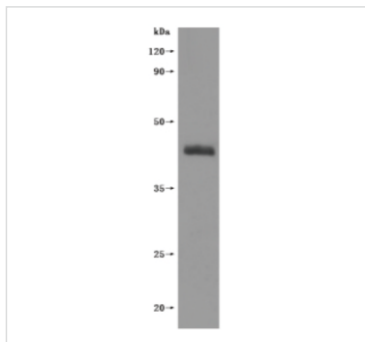


The presence of VLP-like structures was confirmed by TEM.

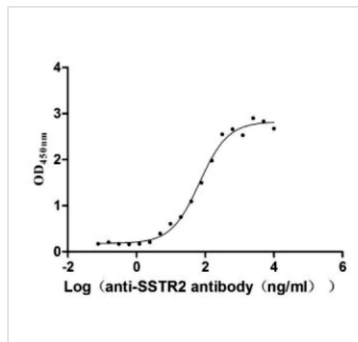


► Recombinant Human SSTR2-VLPs (7 times transmembrane) (CSB-MP022725HU)

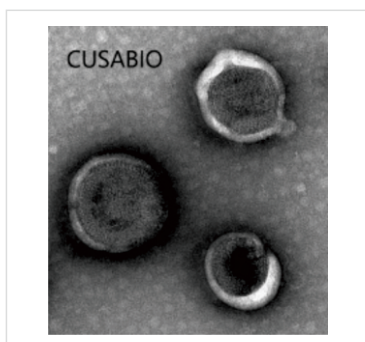
**SSTR2** is a class of G protein-coupled receptors (GPCRs) superfamily. Its natural ligand is somatostatin (SST). SSTR2 is a stable hydrophilic protein with no signal peptide. The secondary structure is mainly α-helical and belongs to the 7tm superfamily of GPCRs. Numerous studies have confirmed that SSTR2 proteins are mainly involved in biological processes such as the G protein-coupled receptor pathway; they are involved in the regulation of molecular functions, such as the binding of GTPase-activating protein (GAP) and the activity of the multiple hormone, which are closely linked to different diseases.



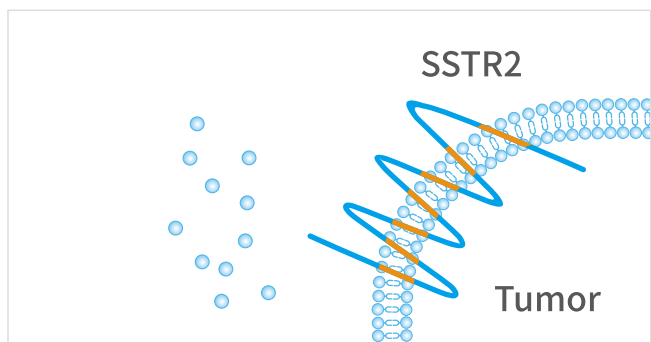
CSB-MP022725HU is detected by Mouse anti-6\*His monoclonal antibody.



Measured by its binding ability in a functional ELISA. Immobilized Human SSTR2 at 10 µg/ml can bind Anti-SSTR2 recombinant antibody (CSB-RA022725MA01HU), the EC<sub>50</sub> is 58.13-81.28 ng/mL.



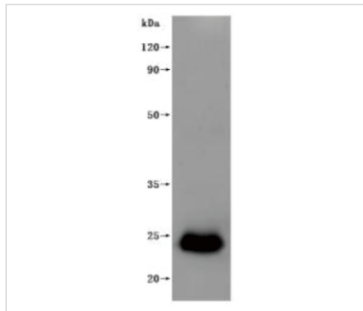
The presence of VLP-like structures was confirmed by TEM.



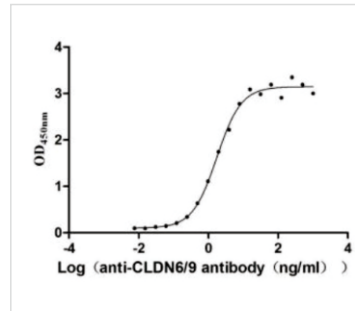
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► Recombinant Human CLDN6-VLPs (7 times transmembrane) (CSB-MP005508HU(A4))

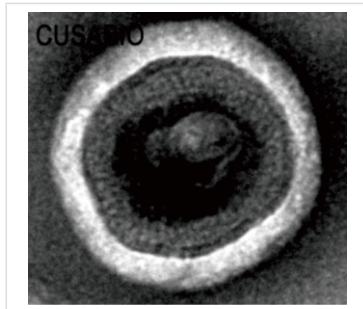
**CLDN6**, one of the 27 CLDN family members, is an important molecule that makes up the tight junctions between cells. CLDN6 is located on chromosome 16p3.3 and has a molecular weight of about 20-40 kDa. Currently, the research on the advanced structure of CLDN6 is still in its infancy. However, it is noteworthy that more and more studies have shown that abnormal expression of CLDN6 can be involved in the development and progression of many malignant tumors such as breast cancer, ovarian cancer, cervical cancer, gastric cancer, and lung cancer.



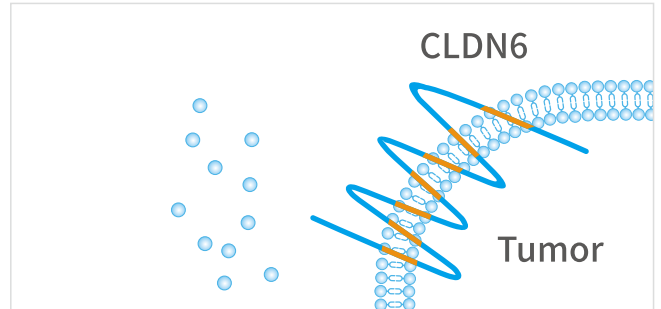
CSB-MP005508HU(A4) is detected by Mouse anti-6\*His monoclonal antibody.



Measured by its binding ability in a functional ELISA. Immobilized Human CLDN6 at 10 µg/ml can bind Anti-CLDN6/9 recombinant antibody (CSB-RA005508MA1HU), the EC<sub>50</sub> is 1.501-2.035 ng/mL.

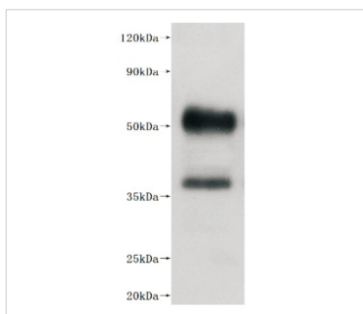


The presence of VLP-like structures was confirmed by TEM.

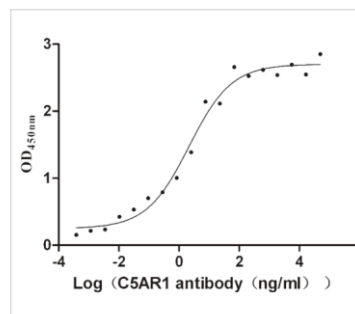


► Recombinant Human C5AR1-VLPs (7 times transmembrane) (CSB-MP003996HU)

**C5AR1**, also known as complement fragment C5a receptor, is a classic G protein-coupled receptor, which plays a key role in the innate immune response. The tumor tissue recruits myeloid-derived suppressor cells (MDSCs) expressing C5AR1 to the tumor site by producing C5a. The MDSCs in the tumor site can promote tumor angiogenesis, increase the concentration of tumor-promoting cytokines, and inhibit the activation of T cells and the cytotoxicity of NK cells, thereby altering the tumor microenvironment to further suppress the immune attack on the tumor and promote tumor occurrence and development. By binding to C5AR1 and blocking the interaction between C5a and C5AR1, it inhibits the activation and migration of target cells, thereby exerting an anti-tumor effect.



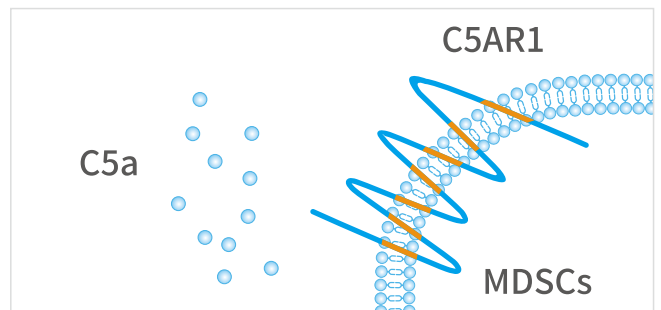
Human C5AR1 is detected by mouse anti-6\*His monoclonal antibody.



Measured by its binding ability in a functional ELISA. Immobilized human C5AR1 at 10 µg/ml can bind anti-C5AR1 recombinant antibody, the EC<sub>50</sub> is 1.239-3.760 ng/mL.



The presence of VLP-like structures was confirmed by TEM.



## Related Products and Services

### Drug Target Protein

Drug targets refer to biological macromolecules that have pharmacodynamic functions and can be acted upon by drugs, such as certain proteins and nucleic acids and other biological macromolecules. Genes encoding target proteins are also called target genes. The protein expressed by the target gene is called the drug target protein. Determining the target molecules related to specific diseases in advance is the basis for the development of new drugs. CUSABIO has developed a series of drug target proteins for the current hot drug targets, including immune checkpoint proteins, Fc receptor proteins, CD antigens, CAR-T target proteins and cancer target proteins.

| Gene Names   | Organism | Source         | Tag Info   | Code                   |
|--|----------|----------------|--|------------------------|
| ACE2   | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP866317HU         |
| ACE2   | Macac    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP3414MOV          |
| ACE2   | Pagum    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP684964PAL        |
| ALPI   | Human    | Mammalian cell | N-terminal 10xHis-tagged   | CSB-MP001627HU         |
| Alpi   | Rat      | Mammalian cell | N-terminal 10xHis-tagged   | CSB-MP001627RA         |
| ANGPT2   | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP001707HU(A4)     |
| ANGPT2   | Dog      | Mammalian cell | C-terminal 6xHis-tagged  | CSB-MP001707DO         |
| BSG  | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP002831HU1        |
| BTLA   | Human    | Mammalian cell | C-terminal hFc-Myc-tagged  | CSB-MP773799HU         |
| C5AR1   | Human    | Mammalian cell | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions) | CSB-MP003996HU         |
| CCR8  | Human    | Mammalian cell | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions) | CSB-MP004847HU         |
| CD20  | Macac    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP4516MOV          |
| CD22   | Human    | Mammalian cell | C-terminal 6xHis-tagged  | CSB-MP004900HU         |
| CD226  | Human    | Mammalian cell | C-terminal hFc-Myc-tagged  | CSB-MP618996HU         |
| CD24   | Human    | Mammalian cell | N-terminal 6xHis-tagged  | CSB-MP004902HU         |
| CD274  | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP878942HU1        |
| CD276  | Human    | Mammalian cell | C-terminal hFc-Myc-tagged  | CSB-MP733578HU         |
| CD33   | Human    | Mammalian cell | C-terminal hFc-Myc-tagged  | CSB-MP004925HU         |
| CD40   | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP004936HU1        |
| CD40LG   | Human    | Mammalian cell | N-terminal hFc-Flag-tagged   | CSB-MP004937HU3        |
| CD44   | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP004938HU(F1)     |
| CD44   | Human    | Mammalian cell | C-terminal mFc-Avi-tagged  | CSB-MP004938HU(F1)j1-B |
| CD44   | Macac    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP4290MOV          |
| CD46   | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP004939HU         |
| CD47   | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP004940HU         |
| CD48   | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP004941HU         |
| CD7  | Human    | Mammalian cell | C-terminal hFc-Myc-tagged  | CSB-MP004953HU         |
| CD74   | Human    | Mammalian cell | N-terminal 10xHis-tagged   | CSB-MP004956HU1(F2)    |
| CD93   | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP865099HU         |
| CD93   | Macac    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP4279MOV          |
| Cd93   | Mouse    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP004970MO         |
| CD96   | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP004971HU1(F2)    |
| CEACAM5  | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP005165HU         |
| CEACAM6  | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP005166HU         |



| Gene Names        | Organism | Source         | Tag Info   | Code               |
|-------------------|----------|----------------|--|--------------------|
| CLDN18 <b>HOT</b> | Macac    | Mammalian cell | N-terminal 6xHis-tagged (This tag can be tested only under denaturing conditions)  | CSB-MP4304MOV      |
| Cldn18            | Mouse    | Mammalian cell | N-terminal 6xHis-tagged (This tag can be tested only under denaturing conditions)  | CSB-MP005498MO(F3) |
| CLDN18.2          | Human    | Mammalian cell | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions) | CSB-MP005498HU(A5) |
| CLDN3 <b>NEW</b>  | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP005505HU     |
| CLDN4 <b>HOT</b>  | Human    | Mammalian cell | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions) | CSB-MP005506HU     |
| CLDN6 <b>HOT</b>  | Human    | Mammalian cell | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions) | CSB-MP005508HU(A4) |
| CLDN9 <b>HOT</b>  | Human    | Mammalian cell | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions) | CSB-MP005511HU     |
| CNR1 <b>HOT</b>   | Human    | Mammalian cell | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions) | CSB-MP005678HU     |
| CSF2RB            | Human    | Mammalian cell | C-terminal 6xHis-tagged  | CSB-MP006047HU     |
| CTLA4             | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP006163HU1    |
| CXCR4 <b>HOT</b>  | Human    | Mammalian cell | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions) | CSB-MP006254HU(F1) |
| DDR1 <b>HOT</b>   | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP006595HU     |
| DKK1              | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP006920HU(A4) |
| DLL3              | Human    | Mammalian cell | C-terminal 6xHis-tagged  | CSB-MP882142HU     |
| DLL3              | Macac    | Mammalian cell | C-terminal 6xHis-tagged  | CSB-MP3536MOV      |
| Dsg3              | Mouse    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP007205Mod7   |
| DSG3              | Human    | Baculovirus    | C-terminal 6xHis-tagged  | CSB-BP007205HUc7   |
| E7                | Human    | E.coli         | N-terminal 6xHis-tagged and C-terminal 6xHis-tagged                                | CSB-EP365855HMLg5  |
| EFNA5             | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP007464HU     |
| EGFR              | Human    | Mammalian cell | N-terminal 10xHis-tagged and C-terminal Myc-tagged                                 | CSB-MP007479HU     |
| ENPP3             | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP007681HU     |
| ENPP3 <b>HOT</b>  | Macac    | Mammalian cell | N-terminal 10xHis-tagged   | CSB-MP4278MOV      |
| EPHA3             | Human    | Mammalian cell | C-terminal 6xHis-tagged  | CSB-MP007723HU     |
| ERBB2             | Human    | Mammalian cell | C-terminal 6xHis-tagged  | CSB-MP007763HU     |
| ERBB3             | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP007765HU     |
| GCGR              | Human    | Mammalian cell | N-terminal 10xHis-tagged and C-terminal Myc-tagged                                 | CSB-MP009316HU1    |
| Gfral             | Mouse    | Mammalian cell | N-terminal 10xHis-tagged and C-terminal Myc-tagged                                 | CSB-MP750964MO1    |
| GH1               | Human    | Mammalian cell | N-terminal 10xHis-tagged and C-terminal Myc-tagged                                 | CSB-MP009407HU     |
| GHR               | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP009411HU     |
| GHR               | Human    | Mammalian cell | C-terminal mFc-Avi-tagged  | CSB-MP009411HUj1-B |
| GLP1R             | Human    | Mammalian cell | N-terminal 10xHis-tagged and C-terminal Myc-tagged                                 | CSB-MP009514HUb1   |
| GPC3              | Human    | Mammalian cell | N-terminal 6xHis-Myc-tagged  | CSB-MP009705HU(M)  |
| GPRC5D <b>HOT</b> | Human    | Mammalian cell | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions) | CSB-MP882153HU     |
| GUCY2C            | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP010053HUd9   |
| GUCY2C            | Human    | Mammalian cell | N-terminal 10xHis-tagged   | CSB-MP010053HU     |
| ICOSLG            | Human    | Mammalian cell | C-terminal 6xHis-tagged  | CSB-MP010958HU1    |

| Gene Names        | Organism | Source         | Tag Info   | Code                |
|-------------------|----------|----------------|--|---------------------|
| IGFL1             | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP764932HU      |
| IGFLR1            | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP862025HUd9    |
| IGFLR1            | Human    | Mammalian cell | C-terminal 6xHis-tagged  | CSB-MP862025HU      |
| IL12B&IL12A       | Human    | Mammalian cell | C-terminal 10xHis-tagged & C-terminal Flag-tagged                                  | CSB-MP4155HU        |
| IL17A <b>HOT</b>  | Human    | Baculovirus    | N-terminal 6xHis-tagged  | CSB-BP624104HU(M)   |
| KLRK1             | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP012474HU1     |
| L1CAM             | Human    | Mammalian cell | N-terminal 10xHis-tagged and C-terminal Myc-tagged                                 | CSB-MP012704HU1     |
| LIF               | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP012928HUd9    |
| LIFR              | Human    | Mammalian cell | C-terminal hFc-Flag-tagged   | CSB-MP012929HUi9    |
| LTA               | Human    | Mammalian cell | N-terminal 6xHis-tagged  | CSB-MP013218HU      |
| LY6G6D            | Human    | Yeast          | N-terminal 6xHis-tagged  | CSB-YP013246HU      |
| LY6G6D <b>NEW</b> | Macac    | Yeast          | N-terminal 6xHis-tagged  | CSB-YP4607MOV       |
| MAGEA4            | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP013330HU      |
| MAPT              | Macac    | Mammalian cell | N-terminal 10xHis-tagged   | CSB-MP013481MOW     |
| Mapt              | Mouse    | Mammalian cell | N-terminal 10xHis-tagged   | CSB-MP013481MO      |
| Mapt              | Rat      | Mammalian cell | N-terminal 10xHis-tagged   | CSB-MP013481RA      |
| MAPT              | Human    | Mammalian cell | N-terminal 10xHis-tagged   | CSB-MP013481HU(F8)  |
| MERTK <b>HOT</b>  | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP621519HU      |
| Mertk             | Mouse    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP723346MO      |
| MET               | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP013714HU      |
| MIF               | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP013826HU      |
| MS4A1             | Human    | Mammalian cell | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions) | CSB-MP015007HU      |
| MS4A1             | Dog      | Mammalian cell | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions) | CSB-MP661636DO      |
| MSLN              | Human    | Mammalian cell | N-terminal hFc-tagged  | CSB-MP015044HUc9    |
| MUC16             | Human    | Mammalian cell | C-terminal 6xHis-tagged  | CSB-MP704410HU3c7   |
| MUC17             | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP727848HU      |
| NECTIN4           | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP822274HU      |
| NRG1              | Human    | Mammalian cell | C-terminal 6xHis-tagged  | CSB-MP016077HU1(F6) |
| NRP1              | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP016091HU      |
| NT5E              | Human    | Mammalian cell | C-terminal 6xHis-tagged  | CSB-MP723415HU      |
| PDCD1             | Human    | Mammalian cell | C-terminal 6xHis-tagged  | CSB-MP619964HU1     |
| PLXNB1            | Human    | Mammalian cell | N-terminal mFc-tagged  | CSB-MP018222HU2k6   |
| Prlr              | Mouse    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP018727MO      |
| PRLR              | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP018727HU1d7   |
| PROM1             | Human    | Mammalian cell | C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions) | CSB-MP018751HU(A4)  |
| PVR               | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP019093HU(M)   |
| RBP4              | Human    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP019483HU      |
| Rbp4              | Mouse    | Mammalian cell | C-terminal hFc-tagged  | CSB-MP4018MO        |
| ROR1              | Human    | Mammalian cell | C-terminal 10xHis-tagged   | CSB-MP020067HU1d7   |
| RSPO1             | Human    | Mammalian cell | C-terminal 10xHis-Avi-tagged   | CSB-MP644834HU1     |
| S                 | Human    | Mammalian cell | C-terminal 6xHis-mFc-tagged  | CSB-MP3324GMY1      |
| S                 | Human    | Mammalian cell | N-terminal 10xHis-tagged and C-terminal Myc-tagged                                 | CSB-MP348663HQE     |

| Gene Names       | Organism | Source         | Tag Info  | Code                 |
|------------------|----------|----------------|---|----------------------|
| S                | Human    | Mammalian cell | C-terminal mFc-tagged   | CSB-MP3324GMY1(M8)h8 |
| SECTM1           | Human    | Mammalian cell | C-terminal hFc-tagged   | CSB-MP819898HU       |
| Sema4d           | Mouse    | Mammalian cell | C-terminal mFc-tagged   | CSB-MP020990MO       |
| SEMA4D           | Human    | Mammalian cell | C-terminal 10xHis-tagged  | CSB-MP835707HU       |
| SEMA4D           | Human    | Mammalian cell | C-terminal hFc-tagged   | CSB-MP835707HUd9     |
| SEMA4D           | Macac    | Mammalian cell | C-terminal 10xHis-tagged  | CSB-MP3947MOW        |
| SIRPA            | Human    | Mammalian cell | C-terminal 6xHis-Myc-tagged   | CSB-MP021334HU       |
| SLC39A6          | Human    | Baculovirus    | C-terminal 6xHis-tagged   | CSB-BP621669HU1      |
| SSTR2 <b>HOT</b> | Human    | Mammalian cell | C-terminal 6xHis-tagged (This tag can be tested only under denaturing conditions) | CSB-MP022725HU       |
| TACSTD2          | Human    | Mammalian cell | C-terminal hFc-tagged   | CSB-MP023072HU1      |
| TFPI             | Rabbi    | Mammalian cell | N-terminal 10xHis-tagged  | CSB-MP023437RB       |
| TFPI             | Human    | Mammalian cell | C-terminal 10xHis-tagged  | CSB-MP023437HU       |
| TIGIT            | Human    | Mammalian cell | C-terminal hFc-Myc-tagged   | CSB-MP675446HU       |
| TMEFF2           | Human    | Mammalian cell | C-terminal 10xHis-tagged  | CSB-MP883439HU       |
| TNFR1            | Human    | Mammalian cell | C-terminal hFc-tagged   | CSB-MP023977HU1      |
| TNFRSF11B        | Human    | Mammalian cell | C-terminal hFc-Flag-tagged  | CSB-MP023969HU       |
| TNFRSF13C        | Human    | Mammalian cell | C-terminal hFc-Flag-tagged  | CSB-MP853495HU1      |
| TNFRSF14         | Human    | Mammalian cell | C-terminal hFc-tagged   | CSB-MP842173HU       |
| Tnfrsf17         | Human    | Mammalian cell | C-terminal hFc-tagged   | CSB-MP023974HU1      |
| TNFRSF18         | Human    | Mammalian cell | C-terminal hFc-tagged   | CSB-MP896537HU       |
| TNFRSF1B         | Human    | Mammalian cell | C-terminal hFc-tagged   | CSB-MP023978HU2      |
| TNFRSF8          | Human    | Mammalian cell | N-terminal 10xHis-tagged and C-terminal Myc-tagged                                | CSB-MP023983HU1      |
| TNFRSF9          | Human    | Mammalian cell | C-terminal 10xHis-tagged  | CSB-MP023984HU1      |
| TNFSF13B         | Human    | Mammalian cell | N-terminal hFc-tagged   | CSB-MP897523HU1      |
| TNFSF13B         | Human    | Mammalian cell | N-terminal hFc-Avi-tagged   | CSB-MP897523HU1-B    |
| TNFSF14          | Human    | Mammalian cell | N-terminal hFc-Myc-tagged   | CSB-MP023991HUj2     |
| TNFSF14          | Human    | Mammalian cell | N-terminal hFc-Avi-tagged   | CSB-MP023991HUj7-B   |
| TNFSF18          | Human    | Mammalian cell | N-terminal hFc-Flag-tagged  | CSB-MP891791HU       |
| TNFSF8           | Human    | Mammalian cell | N-terminal 6xHis-tagged   | CSB-MP023996HU1      |
| TNFSF8           | Human    | Mammalian cell | N-terminal hFc-tagged   | CSB-MP023996HU1c9    |
| TNFSF9           | Human    | Mammalian cell | N-terminal hFc-Myc-tagged   | CSB-MP023997HU1      |
| TPBG             | Macac    | Mammalian cell | N-terminal 10xHis-tagged and C-terminal Myc-tagged                                | CSB-MP024093MOV      |
| TPBG             | Human    | Mammalian cell | N-terminal 10xHis-tagged  | CSB-MP024093HUb0     |
| TROP2 <b>NEW</b> | Human    | Mammalian cell | C-terminal 10xHis-tagged  | CSB-MP023072HU2      |
| TROP2 <b>NEW</b> | Human    | Mammalian cell | C-terminal 10xHis-tagged  | CSB-MP023072HU1d7    |
| TTR              | Human    | Mammalian cell | C-terminal hFc-Myc-tagged   | CSB-MP025270HUh6     |
| Ttr              | Mouse    | Mammalian cell | C-terminal 10xHis-tagged  | CSB-MP025270MO       |
| ULBP1            | Human    | Mammalian cell | C-terminal hFc-Myc-tagged   | CSB-MP887177HU       |
| ULBP1            | Human    | Mammalian cell | C-terminal mFc-Avi-tagged   | CSB-MP887177HUj1-B   |
| VSIG4            | Human    | Mammalian cell | C-terminal 10xHis-tagged  | CSB-MP896869HU       |
| ZG16B <b>HOT</b> | Human    | Mammalian cell | C-terminal 10xHis-tagged  | CSB-MP836195HU       |
| ZNRF3            | Human    | Mammalian cell | C-terminal 6xHis-tagged   | CSB-MP890933HU       |

## Cytokine

CUSABIO provides cytokines with animal free. After strict QA&QC, they have the characteristics of high purity, low endotoxin, high biological activity, and batch stability. The production process and raw materials can be traced, which can make cell culture more efficient and stable.

### ● Animal Free

- No animal-derived pathogens introduced into the culture system, best choice for clinical cell culture.
- No xenogeneic rejection and allergic reaction caused, more suitable for in vivo experiment.
- No animal-derived proteins and hormones interfere with the experimental results, can ensure stable and reliable test results.

### ● Low Endotoxin

Endotoxin Level < 0.01 EU/μg

### ● High Purity

The purity of most products is greater than 95%, some are even greater than 97% or 98% as determined by SDS-PAGE and HPLC.

### ● High Bioactivity

### The list of part of cytokines:

| Target | Code           | Target | Code           | Target    | Code           |
|--------|----------------|--------|----------------|-----------|----------------|
| BDNF   | CSB-AP003781HU | DEFB1  | CSB-AP003031HU | IL1A      | CSB-AP004261HU |
| CCL11  | CSB-AP000901HU | FGF1   | CSB-AP002391HU | IL1B      | CSB-AP001671HU |
| CCL15  | CSB-AP000591HU | FGF12  | CSB-AP004021HU | IL1RN     | CSB-AP001681HU |
| CCL16  | CSB-AP000601HU | FGF17  | CSB-AP002451HU | IL2       | CSB-AP004501HU |
| CCL17  | CSB-AP000611HU | FGF2   | CSB-AP003831HU | IL20      | CSB-AP001871HU |
| CCL18  | CSB-AP000621HU | FGF21  | CSB-AP002471HU | IL21      | CSB-AP001881HU |
| CCL2   | CSB-AP000821HU | FGF23  | CSB-AP002481HU | IL22      | CSB-AP001891HU |
| CCL20  | CSB-AP000931HU | FGF7   | CSB-AP002421HU | IL3       | CSB-AP001701HU |
| CCL21  | CSB-AP000941HU | FGF9   | CSB-AP003811HU | IL31      | CSB-AP004631HU |
| CCL22  | CSB-AP000951HU | GDF5   | CSB-AP005981HU | IL36A     | CSB-AP001921HU |
| CCL25  | CSB-AP000981HU | GDF6   | CSB-AP005971HU | IL36B     | CSB-AP002011HU |
| CCL26  | CSB-AP000991HU | GDF7   | CSB-AP005961HU | IL36G     | CSB-AP002031HU |
| CCL27  | CSB-AP001001HU | GDNF   | CSB-AP002881HU | IL36RN    | CSB-AP002051HU |
| CCL28  | CSB-AP001011HU | GFRA1  | CSB-AP005691HU | IL4       | CSB-AP001711HU |
| CCL3   | CSB-AP003531HU | GH1    | CSB-AP000011HU | IL5       | CSB-AP004291HU |
| CCL3L1 | CSB-AP000831HU | HBEGF  | CSB-AP002651HU | IL6       | CSB-AP001741HU |
| CCL4   | CSB-AP000851HU | HGF    | CSB-AP003681HU | IL7       | CSB-AP001751HU |
| CCL5   | CSB-AP000871HU | IFNA1  | CSB-AP002741HU | IL9       | CSB-AP004311HU |
| CCL7   | CSB-AP000881HU | IFNA2  | CSB-AP002761HU | LIF       | CSB-AP002221HU |
| CCL8   | CSB-AP000891HU | IFNG   | CSB-AP002801HU | LTA       | CSB-AP004941HU |
| CD160  | CSB-AP005221HU | IFNL1  | CSB-AP002811HU | MANF      | CSB-AP002891HU |
| CNTF   | CSB-AP002841HU | IFNL3  | CSB-AP004471HU | NGF       | CSB-AP003771HU |
| CSF2   | CSB-AP002081HU | IGF1   | CSB-AP003701HU | NTF3      | CSB-AP003801HU |
| CTSE   | CSB-AP005661HU | IGF2   | CSB-AP003891HU | NTF4      | CSB-AP002831HU |
| CXCL1  | CSB-AP000631HU | IGFBP3 | CSB-AP002491HU | PDGFA     | CSB-AP003941HU |
| CXCL10 | CSB-AP000721HU | IGFBP5 | CSB-AP002501HU | PDGFB     | CSB-AP003821HU |
| CXCL11 | CSB-AP000731HU | IL10   | CSB-AP001791HU | PGF       | CSB-AP002731HU |
| CXCL12 | CSB-AP000751HU | IL11   | CSB-AP001801HU | TFF1      | CSB-AP000341HU |
| CXCL13 | CSB-AP000771HU | IL12A  | CSB-AP001811HU | TFF2      | CSB-AP000351HU |
| CXCL17 | CSB-AP000781HU | IL13   | CSB-AP001831HU | TFF3      | CSB-AP000361HU |
| CXCL2  | CSB-AP000641HU | IL15   | CSB-AP001621HU | TGFB2     | CSB-AP003961HU |
| CXCL3  | CSB-AP000651HU | IL16   | CSB-AP004681HU | THPO      | CSB-AP003971HU |
| CXCL4  | CSB-AP000661HU | IL17A  | CSB-AP001851HU | TIGAR     | CSB-AP000111HU |
| CXCL8  | CSB-AP004641HU | IL17B  | CSB-AP001651HU | TNFRSF11B | CSB-AP004951HU |
| CXCL9  | CSB-AP000711HU | IL17F  | CSB-AP001841HU | TSLP      | CSB-AP002121HU |
| CYR61  | CSB-AP002661HU |        |                |           |                |

## ELISA Kits of Cytokine

Cytokines are a class of small molecular proteins with a wide range of biological activities that are synthesized and secreted by immune cells and certain non-immune cells through stimulation. The concentration of cytokines and their receptors can reflect the pathological process of the disease. Through the detection of cytokines and the level of soluble receptors, the effects of different drugs in the treatment of diseases can be evaluated. CUSABIO ELISA kit has undergone three rounds of quality inspections and optimized components. It has the characteristics of high sensitivity, specificity, stability, and 100% quality assurance to ensure the validity and reliability of the test results.

### The list of part of cytokine ELISA kits:

| Target | Code           | Species | Sample Types  | Sensitivity  | Detect Range            |
|--------|----------------|---------|---|--------------|-------------------------|
| CCL1   | CSB-EL004774HU | Human   | serum, plasma, tissue homogenates   | 3.9 pg/mL    | 15.6 pg/mL-1000 pg/mL   |
| CCL1   | CSB-E14298m    | Mouse   | serum, plasma, tissue homogenates   | 1.95 pg/mL   | 7.8 pg/mL-500 pg/mL     |
| CCL11  | CSB-E04533h    | Human   | serum, plasma, cell culture supernates, tissue homogenates_x000D_   | 7.8 pg/mL    | 31.25 pg/mL-2000 pg/mL  |
| CCL13  | CSB-E09762h    | Human   | serum, plasma, tissue homogenates   | 9.75 pg/mL   | 39.06 pg/mL-2500 pg/mL  |
| CCL14  | CSB-EL004777HU | Human   | serum, plasma, tissue homogenates_x000D_  | 0.039 ng/mL  | 0.156 ng/mL-10 ng/mL    |
| CCL15  | CSB-E07997h    | Human   | serum, plasma, tissue homogenates   | 7.81 pg/mL   | 31.25 pg/mL-2000 pg/mL  |
| CCL16  | CSB-EL004779HU | Human   | serum, plasma, tissue homogenates   | 9.77 pg/mL   | 39.06 pg/mL-2500 pg/mL  |
| CCL17  | CSB-E09257h    | Human   | serum, plasma, tissue homogenates   | 3.9 pg/mL    | 15.6 pg/mL-1000 pg/mL   |
| CCL18  | CSB-E09941h    | Human   | serum, plasma, tissue homogenates   | 7.81 pg/mL   | 31.25 pg/mL-2000 pg/mL  |
| CCL19  | CSB-E04670h    | Human   | serum, plasma, tissue homogenates   | 9.75 pg/ml   | 39 pg/ml-2500 pg/ml     |
| CCL19  | CSB-E04671m    | Mouse   | serum, plasma, tissue homogenates   | 9.75 pg/mL   | 39.06 pg/mL-2500 pg/mL  |
| CCL2   | CSB-E04655h    | Human   | serum, plasma, urine, saliva, cerebrospinal fluid (CSF), ascitic fluid, cell culture supernates, tissue homogenates | 1.56 pg/mL   | 6.25 pg/mL-400 pg/mL    |
| CCL2   | CSB-E07430m    | Mouse   | serum, plasma, tissue homogenates   | 19.5 pg/mL   | 78 pg/mL-5000 pg/mL     |
| CCL20  | CSB-E04667h    | Human   | serum, plasma, cell culture supernates  | 3.9 pg/mL    | 15.6 pg/mL-1000 pg/mL   |
| CCL20  | CSB-E04668m    | Mouse   | serum, plasma, tissue homogenates   | 9.75 pg/mL   | 39.06 pg/mL-2500 pg/mL  |
| CCL20  | CSB-E04669r    | Rat     | serum, plasma, tissue homogenates   | 0.039 ng/mL  | 0.156 ng/mL-10 ng/mL    |
| CCL22  | CSB-E04660h    | Human   | serum, plasma, cell culture supernates, tissue homogenates  | 10.324 pg/mL | 15.625 pg/mL-1000 pg/mL |
| CCL22  | CSB-E04661m    | Mouse   | serum, plasma, tissue homogenates, cell culture supernates, cell lysates  | 23.672 pg/mL | 31.25 pg/mL-2000 pg/mL  |
| CCL23  | CSB-E07309h    | Human   | serum, plasma, tissue homogenates_x000D_  | 9.7 pg/mL    | 39 pg/mL-2500 pg/mL     |
| CCL24  | CSB-E10360h    | Human   | serum, plasma, tissue homogenates   | 67.660 pg/mL | 78.125 pg/mL-5000 pg/mL |
| CCL24  | CSB-E07278m    | Mouse   | serum, plasma, tissue homogenates   | 3.9 pg/mL    | 15.6 pg/mL-1000 pg/mL   |
| CCL25  | CSB-EL004789MO | Mouse   | serum, plasma, tissue homogenates   | 19.5 pg/mL   | 78 pg/mL-5000 pg/mL     |
| CCL26  | CSB-EL004790HU | Human   | serum, plasma, tissue homogenates   | 9.75 pg/mL   | 39.06 pg/mL-2500 pg/mL  |
| CCL27  | CSB-E09125h    | Human   | serum, plasma, tissue homogenates   | 0.043 ng/mL  | 0.313 ng/mL-20 ng/mL    |
| CCL28  | CSB-EL004792MO | Mouse   | serum, plasma, tissue homogenates   | 19.5 pg/mL   | 78 pg/mL-5000 pg/mL     |
| CCL28  | CSB-E07310h    | Human   | serum, plasma, tissue homogenates   | 19.5 pg/mL   | 78 pg/mL-5000 pg/mL     |
| CCL3   | CSB-E04662h    | Human   | serum, plasma, tissue homogenates   | 9.75 pg/mL   | 39.06 pg/mL-2500 pg/mL  |
| CCL3   | CSB-E04663m    | Mouse   | serum, plasma, tissue homogenates   | 1.95 pg/mL   | 7.8 pg/mL-500 pg/mL     |
| CCL4   | CSB-EL004797HU | Human   | serum, plasma, tissue homogenates   | 7.8 pg/mL    | 31.25 pg/mL-2000 pg/mL  |
| CCL5   | CSB-E17375h    | Human   | serum, plasma, cell culture supernates, tissue homogenates  | 2.307 pg/mL  | 15.6 pg/mL-1000 pg/mL   |
| CCL7   | CSB-E17377h    | Human   | serum, plasma, tissue homogenates   | 3.9 pg/mL    | 15.6 pg/mL-1000 pg/mL   |

| Target                | Code           | Species | Sample Types   | Sensitivity         | Detect Range            |
|-----------------------|----------------|---------|--|---------------------|-------------------------|
| CCL8                  | CSB-E04656h    | Human   | serum, plasma, tissue homogenates                          | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL   |
| CRP                   | CSB-E07923m(1) | Mouse   | serum, plasma, tissue homogenates                          | 5 ng/mL             | 5 ng/mL-4000 ng/mL      |
| CSF1                  | CSB-E04659m    | Mouse   | serum, plasma, tissue homogenates                          | 1.95 pg/mL          | 7.81 pg/mL-500 pg/mL    |
| CSF1                  | CSB-E04658h    | Human   | serum, plasma, tissue homogenates                          | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL    |
| CSF1R                 | CSB-E10012h    | Human   | serum, plasma, tissue homogenates                          | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL    |
| CSF2                  | CSB-E04568h    | Human   | serum, plasma, cell culture supernates, tissue homogenates | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL   |
| CSF2                  | CSB-E04569m    | Mouse   | serum, plasma, tissue homogenates                          | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL   |
| CSF2                  | CSB-E04570r    | Rat     | serum, plasma, tissue homogenates                          | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL   |
| CSF3                  | CSB-E04564m    | Mouse   | serum, plasma,tissue homogenates                           | 1.95 pg/mL          | 7.8 pg/mL-500 pg/mL     |
| CSF3                  | CSB-E04563h    | Human   | serum, plasma, tissue homogenates                          | 1.95 pg/mL          | 7.8 pg/mL-500 pg/mL     |
| CXCL1                 | CSB-E09150h    | Human   | serum, plasma, tissue homogenates                          | 19.5 pg/mL          | 78 pg/mL-5000 pg/mL     |
| CXCL1                 | CSB-E17286m    | Mouse   | serum, plasma, tissue homogenates                          | 1.95 pg/mL          | 7.8 pg/mL-500 pg/mL     |
| CXCL10                | CSB-E08181h    | Human   | serum, plasma, tissue homogenates                          | 7.8 pg/mL           | 31.25 pg/mL-2000 pg/mL  |
| CXCL10                | CSB-E08183m    | Mouse   | serum, plasma, tissue homogenates                          | 0.078 ng/mL         | 0.312 ng/mL-20 ng/mL    |
| CXCL11                | CSB-E09023h    | Human   | serum, plasma, tissue homogenates                          | 7.8 pg/mL           | 31.25 pg/mL-2000 pg/mL  |
| CXCL13                | CSB-E10019h    | Human   | serum, plasma, tissue homogenates_x000D_                   | 19.5 pg/mL          | 78 pg/mL-5000 pg/mL     |
| CXCL13                | CSB-E16832m    | Mouse   | serum, plasma, tissue homogenates, cell culture supernates | 0.096 ng/mL         | 0.156 ng/mL-10 ng/mL    |
| CXCL14                | CSB-E10025h    | Human   | serum, plasma, tissue homogenates                          | 0.1 ng/mL           | 0.39 ng/mL-25 ng/mL     |
| CXCL16                | CSB-E08871h    | Human   | serum, plasma, tissue homogenates                          | 3.603 pg/mL         | 46.875 pg/mL-3000 pg/mL |
| CXCL16                | CSB-E08873m    | Mouse   | serum, plasma,tissue homogenates                           | 3.012 pg/mL         | 7.8125 pg/mL-500 pg/mL  |
| CXCL2                 | CSB-E07419r    | Rat     | serum, plasma, tissue homogenates                          | 19.5 pg/mL          | 78 pg/mL-5000 pg/mL     |
| CXCL2                 | CSB-E04666m    | Mouse   | serum, plasma, tissue homogenates                          | 5.86 pg/mL          | 23.44 pg/mL-1500 pg/mL  |
| CXCL3                 | CSB-EL006249RA | Rat     | serum, plasma, tissue homogenates                          | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL   |
| CXCL5                 | CSB-E08178h    | Human   | serum, plasma, tissue homogenates                          | 0.567 ng/mL         | 0.625 ng/mL-40 ng/mL    |
| CXCL5                 | CSB-E08179r    | Rat     | serum, plasma, tissue homogenates                          | 0.078 ng/mL         | 0.312 ng/mL-20 ng/mL    |
| CXCL5                 | CSB-E08180m    | Mouse   | serum, plasma, tissue homogenates                          | 15.6 pg/ml          | 62.5 pg/ml - 4000 pg/ml |
| CXCL6                 | CSB-E09990h    | Human   | serum, plasma, tissue homogenates                          | 19.5 pg/mL          | 78 pg/mL-5000 pg/mL     |
| CXCL9                 | CSB-EL006252MO | Mouse   | serum, plasma, tissue homogenates                          | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL   |
| CXCL9                 | CSB-E09024h    | Human   | serum, plasma, tissue homogenates                          | 9.75 pg/mL          | 39.06 pg/mL-2500 pg/mL  |
| EPO                   | CSB-E04539m    | Mouse   | serum, plasma, tissue homogenates                          | 7.8 pg/mL           | 31.25 pg/mL-2000 pg/mL  |
| EPO                   | CSB-E04538h    | Human   | serum, plasma, tissue homogenates                          | 1.95 mIU/ml         | 7.8 mIU/ml-500 mIU/ml   |
| EPOR                  | CSB-E04537h    | Human   | serum, plasma, tissue homogenates                          | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL    |
| GM-CSF Ab             | CSB-E11438h    | Human   | serum  | 0.156 ng/mL         | 0.625 ng/mL-40 ng/mL    |
| HPF4 Complex Ab (IgG) | CSB-E09027h    | Human   | serum, plasma  | Request Information | Request Information     |
| IFNAR2                | CSB-EL011047HU | Human   | serum, plasma, tissue homogenates                          | 7.8 pg/mL           | 31.25 pg/mL-2000 pg/mL  |
| IFNG                  | CSB-E04577h    | Human   | cell culture supernates                                    | 0.078 ng/mL         | 0.312 ng/mL-20 ng/mL    |
| IFNG                  | CSB-E04578m(1) | Mouse   | serum, plasma, tissue homogenates                          | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL    |
| IFN-γ Ab              | CSB-E14210h    | Human   | serum, plasma  | Request Information | Request Information     |
| Il1 auto-Ab           | CSB-EQ027171HU | Human   | /  | Request Information | Request Information     |
| IL10                  | CSB-E04593h    | Human   | serum, plasma, tissue homogenates                          | 7.8 pg/mL           | 31.25 pg/mL-2000 pg/mL  |
| Il10                  | CSB-E04594m    | Mouse   | serum, plasma, tissue homogenates                          | 15.6 pg/mL          | 62.5 pg/mL-4000 pg/mL   |
| Il10                  | CSB-E04595r    | Rat     | serum, plasma, tissue homogenates                          | 15.6 pg/mL          | 62.5 pg/mL-4000 pg/mL   |

| Target   | Code           | Species | Sample Types   | Sensitivity | Detect Range           |
|----------|----------------|---------|--|-------------|------------------------|
| IL11     | CSB-E04597m    | Mouse   | serum, plasma, tissue homogenates                          | 19.5 pg/mL  | 78 pg/mL-5000 pg/mL    |
| IL12/P70 | CSB-E04600m    | Mouse   | serum, plasma, tissue homogenates                          | 15.6 pg/ml  | 62.5 pg/ml -4000 pg/ml |
| IL12/P70 | CSB-E04599h    | Human   | serum, plasma, cell culture supernates                     | 7.8 pg/mL   | 31.25 pg/mL-2000 pg/mL |
| IL12B    | CSB-E04598h    | Human   | serum, plasma, tissue homogenates                          | 0.039 ng/mL | 0.156 ng/mL-10 ng/mL   |
| IL12B    | CSB-E07360m    | Mouse   | serum, plasma, tissue homogenates                          | 3.9 pg/mL   | 15.6 pg/mL-1000 pg/mL  |
| IL13     | CSB-E04602m    | Mouse   | serum, plasma, tissue homogenates                          | 19.5 pg/mL  | 78 pg/mL-5000 pg/mL    |
| IL13     | CSB-E04601h    | Human   | serum, plasma, tissue homogenates                          | 15.6 pg/mL  | 62.5 pg/mL-4000 pg/mL  |
| IL15     | CSB-E04604m    | Mouse   | serum, plasma, tissue homogenates                          | 0.078 ng/mL | 0.312 ng/mL-20 ng/mL   |
| IL15     | CSB-E04603h    | Human   | serum, plasma, tissue homogenates                          | 0.78 pg/mL  | 3.12 pg/mL-200 pg/mL   |
| IL16     | CSB-E04605h    | Human   | serum, plasma, cell culture supernates, tissue homogenates | 0.039 ng/mL | 0.156 ng/mL-10 ng/mL   |
| IL17A    | CSB-E04608m    | Mouse   | serum, plasma, tissue homogenates                          | 19.5 pg/mL  | 78 pg/mL-5000 pg/mL    |
| IL17A    | CSB-E12819h    | Human   | serum, plasma, tissue homogenates                          | 15.6 pg/mL  | 62.5 pg/mL-4000 pg/mL  |
| IL17B    | CSB-E15918h    | Human   | serum, plasma, tissue homogenates                          | 7.8 pg/mL   | 31.25 pg/mL-2000 pg/mL |
| IL17C    | CSB-E15917h    | Human   | serum, plasma, tissue homogenates                          | 0.039 ng/mL | 0.156 ng/mL-10 ng/mL   |
| IL17F    | CSB-EL011601MO | Mouse   | serum, plasma, tissue homogenates                          | 7.8 pg/mL   | 31.25 pg/mL-2000 pg/mL |
| IL17RA   | CSB-EL011602HU | Human   | serum, plasma, tissue homogenates                          | 9.75 pg/mL  | 39.06 pg/mL-2500 pg/mL |
| IL17RB   | CSB-EL011603HU | Human   | serum, plasma, tissue homogenates                          | 0.078 ng/mL | 0.312 ng/mL-20 ng/mL   |
| IL18     | CSB-E07450h    | Human   | serum, plasma, urine, tissue homogenates                   | 7.8 pg/mL   | 31.25 pg/mL-2000 pg/mL |
| IL18BP   | CSB-E13687h    | Human   | serum, plasma  | 3.9 pg/ml   | 15.6 pg/ml-1000 pg/ml  |
| IL1A     | CSB-E04621m    | Mouse   | serum, plasma, tissue homogenates                          | 0.58 pg/ml  | 2.35 pg/ml - 150 pg/ml |
| IL1A     | CSB-E04622r    | Rat     | serum, plasma, tissue homogenates                          | 19.5 pg/mL  | 78 pg/mL-5000 pg/mL    |
| IL1B     | CSB-E08053h    | Human   | serum, plasma, tissue homogenates                          | 1.95 pg/mL  | 7.8 pg/mL-500 pg/mL    |
| IL1B     | CSB-E08054m    | Mouse   | serum, plasma, tissue homogenates                          | 19.5 pg/mL  | 78 pg/mL-5000 pg/mL    |
| IL1B     | CSB-E08055r    | Rat     | serum, plasma, tissue homogenates                          | 0.039 ng/mL | 0.156 ng/mL-10 ng/mL   |
| IL1F5    | CSB-EL011616HU | Human   | serum, plasma, tissue homogenates                          | 7.8 pg/mL   | 31.25 pg/mL-2000 pg/mL |
| IL1R1    | CSB-E04611h    | Human   | serum, plasma,tissue homogenates                           | 0.003 ng/mL | 0.014 ng/mL-10 ng/mL   |
| IL1R2    | CSB-E04612h    | Human   | serum, plasma, tissue homogenates                          | 19.5 pg/mL  | 78 pg/mL-5000 pg/mL    |
| IL1RL1   | CSB-E13789h    | Human   | serum, plasma, tissue homogenates                          | 0.078 ng/mL | 0.312 ng/mL-20 ng/mL   |
| IL1RL1   | CSB-EL011626MO | Mouse   | serum, plasma, tissue homogenates                          | 19.5 pg/mL  | 78 pg/mL-5000 pg/mL    |
| IL1RN    | CSB-E10395m    | Mouse   | serum, plasma, tissue homogenates                          | 15.6 pg/mL  | 62.5 pg/mL-4000 pg/mL  |
| IL1RN    | CSB-E10396h    | Human   | serum, plasma, cell culture supernates, tissue homogenates | 3.9 pg/mL   | 15.6 pg/mL-1000 pg/mL  |
| IL2      | CSB-E04626h    | Human   | serum, plasma, tissue homogenates                          | 7.8 pg/mL   | 31.25 pg/mL-2000 pg/mL |
| IL2      | CSB-E04627m    | Mouse   | serum, plasma, tissue homogenates                          | 7.8 pg/mL   | 31.25 pg/mL-2000 pg/mL |
| IL20     | CSB-EL011630MO | Mouse   | serum, plasma, tissue homogenates                          | 7.8 pg/mL   | 31.25 pg/mL-2000 pg/mL |
| IL20     | CSB-E15015h    | Human   | serum, plasma, cell culture supernates, tissue homogenates | 0.078 ng/mL | 0.312 ng/mL-20 ng/mL   |
| IL21     | CSB-E13162m    | Mouse   | serum, plasma, cell culture supernates, tissue homogenates | 15.6 pg/mL  | 62.5 pg/mL-4000 pg/mL  |
| IL22     | CSB-E13513m    | Mouse   | serum, plasma, cell culture supernates, tissue homogenates | 0.078 ng/mL | 0.312 ng/mL-20 ng/mL   |
| IL22     | CSB-E13418h    | Human   | serum, plasma, tissue homogenates                          | 19.5 pg/mL  | 78 pg/mL-5000 pg/mL    |
| IL24     | CSB-E15840h    | Human   | serum, plasma, cell culture supernates, tissue homogenates | 0.078 ng/mL | 0.312 ng/mL-20 ng/mL   |

| Target                  | Code           | Species | Sample Types   | Sensitivity         | Detect Range           |
|-------------------------|----------------|---------|--|---------------------|------------------------|
| IL27                    | CSB-E08464h    | Human   | serum, plasma, tissue homogenates  | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL   |
| IL-28A/IFN- $\lambda$ 2 | CSB-E11708h    | Human   | serum, plasma, tissue homogenates  | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL   |
| IL29                    | CSB-E17652m    | Mouse   | serum, plasma, tissue homogenates  | 0.058ng/ml          | 0.23ng/ml-15ng/ml      |
| IL29                    | CSB-E14290h    | Human   | serum, plasma, cell culture supernates, urine, cerebrospinal fluid (CSF)                                   | 15.6 pg/mL          | 62.5 pg/mL-4000 pg/mL  |
| IL2RA                   | CSB-E04629h    | Human   | serum, plasma, cell culture supernates, tissue homogenates   | 19.5 pg/mL          | 78 pg/mL-5000 pg/mL    |
| IL2RA                   | CSB-E07440m    | Mouse   | serum, plasma, tissue homogenates  | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL  |
| IL3                     | CSB-E04631h    | Human   | serum, plasma, tissue homogenates  | 15.6 pg/mL          | 62.5 pg/mL-4000 pg/mL  |
| IL3                     | CSB-E04632m    | Mouse   | serum, plasma, tissue homogenates  | 1.95 pg/mL          | 7.8 pg/mL-500 pg/mL    |
| IL31                    | CSB-E16999h    | Human   | serum, plasma, tissue homogenates  | 31.2 pg/mL          | 125 pg/mL-8000 pg/mL   |
| IL31                    | CSB-E13660m    | Mouse   | serum, plasma, cell culture supernates, tissue homogenates   | 7.81 pg/mL          | 31.25 pg/mL-2000 pg/mL |
| IL31RA                  | CSB-EL011654HU | Human   | serum, plasma, tissue homogenates  | 1.56 pg/mL          | 6.25 pg/mL-400 pg/mL   |
| IL33                    | CSB-E14393m    | Mouse   | serum, plasma, cell culture supernates, tissue homogenates   | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL  |
| IL33                    | CSB-E13000h    | Human   | serum, plasma, urine   | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL  |
| IL4                     | CSB-E04633h    | Human   | serum, plasma, tissue homogenates  | 7.8 pg/mL           | 31.25 pg/mL-2000 pg/mL |
| IL4                     | CSB-E04634m    | Mouse   | serum, plasma, tissue homogenates  | 7.8 pg/mL           | 31.25 pg/mL-2000 pg/mL |
| IL4                     | CSB-E04635r    | Rat     | serum, plasma, tissue homogenates  | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL  |
| IL5                     | CSB-E04636h    | Human   | serum, plasma, tissue homogenates  | 0.98 pg/mL          | 3.91 pg/mL-250 pg/mL   |
| IL5                     | CSB-E04637m    | Mouse   | serum, plasma, cell culture supernates, tissue homogenates   | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL  |
| IL6                     | CSB-E04638h    | Human   | serum, plasma, cell culture supernates, tissue homogenates, urine  | 2.453 pg/mL         | 7.8 pg/mL-500 pg/mL    |
| IL6                     | CSB-E04639m    | Mouse   | serum, plasma, cell culture supernates   | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL  |
| IL6                     | CSB-E04640r    | Rat     | serum, plasma, tissue homogenates  | 19.5 pg/mL          | 78 pg/mL-5000 pg/mL    |
| IL6 auto-Ab             | CSB-EQ027170HU | Human   | serum, plasma  | Request Information | Request Information    |
| IL6R                    | CSB-E16524h    | Human   | serum, plasma, tissue homogenates  | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL   |
| IL6ST                   | CSB-E04572m    | Mouse   | serum, plasma, tissue homogenates  | 19.5 pg/mL          | 78 pg/mL-5000 pg/mL    |
| IL7                     | CSB-E14032h    | Human   | serum, plasma, cell culture supernates, tissue homogenates   | 1.95 pg/mL          | 7.8 pg/mL-500 pg/mL    |
| IL7                     | CSB-E10257m    | Mouse   | serum, plasma, tissue homogenates  | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL   |
| IL7R                    | CSB-EL011670MO | Mouse   | serum, plasma, tissue homogenates  | 19.5 pg/mL          | 78 pg/mL-5000 pg/mL    |
| IL8                     | CSB-E04641h    | Human   | serum, cell culture supernates, saliva, urine, cerebrospinal fluid (CSF), tissue homogenates, cell lysates | 7.110 pg/mL         | 31.25 pg/mL-2000 pg/mL |
| IL8 auto-Ab             | CSB-EQ027463HU | Human   | serum, plasma  | Request Information | Request Information    |
| MPO                     | CSB-E08721h    | Human   | serum, plasma, tissue homogenates  | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL   |
| Pf4                     | CSB-E07882h    | Human   | serum, plasma, tissue homogenates  | 1.56 ng/mL          | 6.25 ng/mL-400 ng/mL   |
| Pf4                     | CSB-E07884m    | Mouse   | serum, plasma, tissue homogenates  | 1.603 ng/mL         | 3.125 ng/mL-200 ng/mL  |
| PFN1                    | CSB-E16491h    | Human   | serum, plasma, tissue homogenates  | 0.195 ng/mL         | 0.78 ng/mL-50 ng/mL    |
| TARC/CCL17              | CSB-E14144m    | Mouse   | serum, plasma, cell culture supernates, tissue homogenates   | 10.512 pg/mL        | 31.25 pg/mL-2000 pg/mL |



| Target           | Code           | Species | Sample Types   | Sensitivity         | Detect Range            |
|------------------|----------------|---------|--|---------------------|-------------------------|
| TGFB3            | CSB-EL023453HU | Human   | serum, plasma, tissue homogenates  | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL    |
| TNF              | CSB-E04740h    | Human   | serum, plasma, cell culture supernates, tissue homogenates, cell lysates | 1.95 pg/mL          | 7.8 pg/mL-500 pg/mL     |
| TNF              | CSB-E04741m(1) | Mouse   | serum, plasma, cell culture supernates, tissue homogenates               | 15.6 pg/mL          | 62.5 pg/mL-4000 pg/mL   |
| TNFRSF10D        | CSB-E04749h    | Human   | serum, plasma, tissue homogenates  | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL    |
| TNFRSF11A        | CSB-E13539h    | Human   | serum, plasma, tissue homogenates  | 0.078 ng/mL         | 0.312 ng/mL-20 ng/mL    |
| TNFRSF11B        | CSB-E04692h    | Human   | serum, plasma, tissue homogenates  | 1.95 pg/mL          | 7.8 pg/mL-500 pg/mL     |
| TNFRSF11B        | CSB-E07404r    | Rat     | serum, plasma, tissue homogenates  | 0.195 ng/ml         | 0.78 ng/ml - 50 ng/ml   |
| TNFRSF11B        | CSB-E04693m    | Mouse   | serum, plasma, tissue homogenates  | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL   |
| TNFRSF13B        | CSB-EL023971HU | Human   | serum, plasma, tissue homogenates  | 19.5 pg/mL          | 78 pg/mL-5000 pg/mL     |
| TNFRSF13B        | CSB-EL023971MO | Mouse   | serum, plasma, tissue homogenates  | 19.5 pg/mL          | 78 pg/mL-5000 pg/mL     |
| TNFRSF13C        | CSB-EL023972MO | Mouse   | serum, plasma, tissue homogenates  | 9.75 pg/mL          | 39.06 pg/mL-2500 pg/mL  |
| TNFRSF14         | CSB-EL023973HU | Human   | serum, plasma, tissue homogenates  | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL   |
| TNFRSF17         | CSB-EL023974HU | Human   | serum, plasma, tissue homogenates  | 1.95 pg/ml          | 7.8 pg/ml- 500 pg/ml    |
| TNFRSF17         | CSB-EL023974MO | Mouse   | serum, plasma, tissue homogenates  | 0.1 ng/mL           | 0.39 ng/mL-25 ng/mL     |
| TNFRSF18         | CSB-EL023975HU | Human   | serum, plasma, tissue homogenates  | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL    |
| TNFRSF18         | CSB-EL023975MO | Mouse   | serum, plasma, tissue homogenates  | 19.5 pg/mL          | 78 pg/mL-5000 pg/mL     |
| TNFRSF1A         | CSB-E04736h    | Human   | serum, plasma, tissue homogenates, urine                                 | 65 pg/mL            | 78.125 pg/mL-5000 pg/mL |
| TNFRSF1A         | CSB-E04737m    | Mouse   | serum, plasma, tissue homogenates  | 1.261 pg/mL         | 15.625 pg/mL-1000 pg/mL |
| TNFRSF1B         | CSB-E11266h    | Human   | serum, plasma, tissue homogenates  | 7.8 pg/mL           | 31.25 pg/mL-2000 pg/mL  |
| TNFRSF1B         | CSB-E04739m    | Mouse   | serum, plasma, tissue homogenates  | 1.6 pg/mL           | 7.8125 pg/mL-500 pg/mL  |
| TNFRSF21         | CSB-EL023979HU | Human   | serum, plasma, tissue homogenates  | 9.75 pg/mL          | 39.06 pg/mL-2500 pg/mL  |
| TNFRSF6B         | CSB-EL023982HU | Human   | serum, plasma, cell culture supernates                                   | 0.156 ng/mL         | 0.625 ng/mL-40 ng/mL    |
| TNFRSF8          | CSB-E04525m    | Mouse   | serum, plasma, tissue homogenates  | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL   |
| TNFRSF9          | CSB-EL023984HU | Human   | serum, plasma, tissue homogenates  | 1.95 pg/mL          | 7.8 pg/mL-500 pg/mL     |
| TNFRSF9          | CSB-EL023984MO | Mouse   | serum, plasma, tissue homogenates  | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL   |
| TNFSF10          | CSB-E04750h    | Human   | serum, plasma, tissue homogenates  | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL   |
| TNFSF10          | CSB-E07371m    | Mouse   | serum, plasma, tissue homogenates  | 7.8 pg/mL           | 31.25 pg/mL-2000 pg/mL  |
| TNFSF11          | CSB-E05127m    | Mouse   | serum, plasma, tissue homogenates  | 3.1 pg/mL           | 12.5 pg/mL-800 pg/mL    |
| TNFSF12          | CSB-E16492h    | Human   | serum, plasma, tissue homogenates  | 0.078 ng/ml         | 0.312 ng/ml-20 ng/ml    |
| TNFSF12          | CSB-EL023987MO | Mouse   | serum, plasma, tissue homogenates  | 19.5 pg/mL          | 78 pg/mL-5000 pg/mL     |
| TNFSF14          | CSB-EL023991HU | Human   | serum, plasma, tissue homogenates  | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL    |
| TNFSF14          | CSB-EL023991RA | Rat     | serum, plasma, tissue homogenates  | 3.9 pg/mL           | 15.6 pg/mL-1000 pg/mL   |
| TNFSF8           | CSB-E04715m    | Mouse   | serum, plasma, tissue homogenates  | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL    |
| TNFsR2           | CSB-E07380r    | Rat     | serum, plasma, tissue homogenates  | 0.156 ng/mL         | 0.625 ng/mL-40 ng/mL    |
| TNF- $\alpha$ Ab | CSB-EQ023955HU | Human   | serum, plasma  | Request Information | Request Information     |
| TNF- $\alpha$ Ab | CSB-EQ023955MO | Mouse   | serum, plasma  | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL    |
| TSLP             | CSB-E09316h    | Human   | serum, plasma, tissue homogenates  | 0.078 ng/mL         | 0.312 ng/mL-20 ng/mL    |
| XCL1             | CSB-E08714m    | Mouse   | serum, plasma, tissue homogenates  | 0.039 ng/mL         | 0.156 ng/mL-10 ng/mL    |
| XCL1             | CSB-E08712h    | Human   | serum, plasma,tissue homogenates   | 0.1 ng/mL           | 0.39 ng/mL-25 ng/mL     |

## Stable Cell Line

Stable cell lines refer to cell lines that express a particular gene consistently and stably through stable transduction, or cell lines that interfere with the expression of a particular gene. Stable cell lines are crucial laboratory tools that can be used in many important applications, including the production of bio-therapeutic proteins, drug screening and gene function research. Specifically in the field of antibody development, stable cell lines can be used as immunogens to stimulate specific immune responses in animals, especially for targets of multiple transmembrane protein. In addition, stable cell lines are widely used in antibody binding and functional screening experiments.

| Target            | Product Name                          | Code            |
|-------------------|---------------------------------------|-----------------|
| CCR4              | HEK293T/Human CCR4 Stable Cell Line   | CSB-SC004843HU2 |
| CCR4              | CHOK1/Human CCR4 Stable Cell Line     | CSB-SC004843HU  |
| CCR8              | CHOK1/Mouse CCR8 Stable Cell Line     | CSB-SC004847MO  |
| CCR8              | CT26/Human CCR8 Stable Cell Line      | CSB-SC004847HU3 |
| CCR8              | CHOK1/Human CCR8 Stable Cell Line     | CSB-SC004847HU2 |
| CD69 <b>NEW</b>   | CHOK1/Human CD69 Stable Cell Line     | CSB-SC004952HU2 |
| CD93 <b>NEW</b>   | CHOK1/Human CD93 Stable Cell Line     | CSB-SC865099HU  |
| CDH17 <b>NEW</b>  | HEK293T/Human CDH17 Stable Cell Line  | CSB-SC613267HU2 |
| CLDN6             | HEK293T/Human CLDN6 Stable Cell Line  | CSB-SC005508HU  |
| DLL3              | HEK293F/Human DLL3 Stable Cell Line   | CSB-SC882142HU  |
| ENPP3 <b>NEW</b>  | HEK293T/Human ENPP3 Stable Cell Line  | CSB-SC007681HU  |
| GPC3 <b>NEW</b>   | CT26/Human GPC3 Stable Cell Line      | CSB-SC009705HU2 |
| LY6G6D <b>NEW</b> | HEK293T/Human LY6G6D Stable Cell Line | CSB-SC013246HU2 |
| LY6G6D <b>NEW</b> | CT26/Human LY6G6D Stable Cell Line    | CSB-SC013246HU  |
| ROR1              | CT26/Human ROR1 Stable Cell Line      | CSB-SC020067HU  |
| SARM1             | HEK293T/Human SARM1 Stable Cell Line  | CSB-SC750971HU  |
| SEMA4D            | HEK293T/Human SEMA4D Stable Cell Line | CSB-SC835707HU  |
| SSTR2             | CT26/Human SSTR2 Stable Cell Line     | CSB-SC022725HU  |

## Antibodies Specific for Druggable Targets

Antibody drug is a drug composed of antibody substances. It can specifically bind to the target antigen. There are many members of the antibody drug family, mainly monoclonal antibodies. Others include antibody-conjugated drugs (ADC), bispecific antibodies, Fc fusion proteins, antibody fragments, and polyclonal antibodies. Monoclonal antibody drugs are the most important class of antibody drugs. According to the degree of humanization, monoclonal antibodies can be divided into mouse monoclonal antibodies, chimeric monoclonal antibodies, humanized monoclonal antibodies and fully humanized monoclonal antibodies. In order to facilitate drug development, CUSABIO has developed a series of drug control antibodies. These recombinant antibodies are expressed in mammalian cells and have been verified in terms of anti-protein activity.

| Product Name                                   | Code               | Application | Reactive Species |
|--|--------------------|-------------|------------------|
| ANGPT2 Monoclonal Antibody                     | CSB-RA001707MA01HU | ELISA       | Human            |
| C5AR1 Monoclonal Antibody                      | CSB-RA003996A0HU   | ELISA       | Human            |
| CCR4 Monoclonal Antibody                       | CSB-RA004843MA01HU | ELISA, FC   | Human            |
| CCR8 Monoclonal Antibody                       | CSB-RA004847A1HU   | FC          | Human            |
| CD74 Monoclonal Antibody                       | CSB-RA004956A1HU   | ELISA       | Human            |
| CD96 Monoclonal Antibody                       | CSB-RA004971A0HU   | ELISA       | Human            |
| CEACAM5/CEACAM6 Monoclonal Antibody <b>NEW</b> | CSB-RA005165MA2HU  | ELISA       | Human            |
| Claudin-18.2 Monoclonal Antibody               | CSB-RA005498A1HU   | ELISA, FC   | Human            |
| CLDN18 Monoclonal Antibody                     | CSB-RA005498A2HU   | ELISA, FC   | Human            |
| CLDN3 Monoclonal Antibody <b>NEW</b>           | CSB-RA005505MA1HU  | ELISA       | Human            |
| CLDN4 Monoclonal Antibody <b>NEW</b>           | CSB-RA005506MA1HU  | ELISA       | Human            |
| CLDN6/9 Monoclonal Antibody <b>NEW</b>         | CSB-RA005508MA1HU  | ELISA, FC   | Human            |
| CNR1 Monoclonal Antibody <b>NEW</b>            | CSB-RA005678MA01HU | ELISA       | Human            |

| Product Name                             | Code               | Application | Reactive Species           |
|--|--------------------|-------------|----------------------------|
| CSF2RB Monoclonal Antibody               | CSB-RA006047A0HU   | ELISA       | Human                      |
| CXCR4 Monoclonal Antibody                | CSB-RA006254MA01HU | ELISA       | Human                      |
| DDR1 Monoclonal Antibody <b>NEW</b>      | CSB-RA006595MA1HU  | ELISA       | Human                      |
| DLL3 Monoclonal Antibody                 | CSB-RA882142A1HU   | ELISA, FC   | Human                      |
| DSG3 Monoclonal Antibody                 | CSB-RA007205A0HU   | ELISA       | Human, Mouse               |
| ENPP3 Monoclonal Antibody <b>NEW</b>     | CSB-RA007681MA1HU  | ELISA, FC   | Human, Macaca fascicularis |
| GCGR Monoclonal Antibody                 | CSB-RA009316A1HU   | ELISA       | Human                      |
| GLP1R monoclonal antibody <b>NEW</b>     | CSB-RA009514MA1HU  | ELISA       | Human                      |
| GPC3 Monoclonal Antibody <b>NEW</b>      | CSB-RA009705A1HU   | ELISA       | Human                      |
| GPRC5D Monoclonal Antibody               | CSB-RA882153MA01HU | ELISA       | Mouse, Macaca mulatta      |
| GUCY2C Monoclonal Antibody               | CSB-RA010053A2HU   | ELISA, FC   | Human                      |
| IL12&IL23 monoclonal antibody <b>NEW</b> | CSB-RA011587MA1HU  | ELISA       | Human                      |
| IL17A monoclonal antibody <b>NEW</b>     | CSB-RA624104MA1HU  | ELISA       | Human                      |
| LY6G6D monoclonal antibody <b>NEW</b>    | CSB-RA013246MA1HU  | ELISA, FC   | Human, Macaca fascicularis |
| MAPT Monoclonal Antibody                 | CSB-RA013481A1HU   | ELISA       | Human                      |
| MERTK Monoclonal Antibody                | CSB-RA621519A1HU   | ELISA, FC   | Human                      |
| MS4A1 Monoclonal Antibody                | CSB-RA015007A1HU   | ELISA       | Human                      |
| MS4A1 Monoclonal Antibody <b>NEW</b>     | CSB-RA015007MA3HU  | ELISA       | Human, Dog                 |
| NECTIN4 Monoclonal Antibody              | CSB-RA822274A0HU   | ELISA       | Human                      |
| PD-1 monoclonal antibody <b>NEW</b>      | CSB-RA619964MA1HU  | ELISA       | Human                      |
| PRLR Monoclonal Antibody                 | CSB-RA018727A0HU   | ELISA       | Human, Mouse               |
| PROM1 monoclonal antibody                | CSB-RA018751MA1HU  | ELISA       | Human                      |
| ROR1 Monoclonal Antibody <b>NEW</b>      | CSB-RA020067A1HU   | ELISA       | Human                      |
| SEMA4D Monoclonal Antibody               | CSB-RA835707A2HU   | ELISA, FC   | Human, Mouse               |
| SLC39A6 monoclonal antibody <b>NEW</b>   | CSB-RA621669MA1HU  | ELISA       | Human                      |
| SSTR2 Monoclonal Antibody <b>NEW</b>     | CSB-RA022725MA01HU | ELISA, FC   | Human                      |
| TFPI Monoclonal Antibody                 | CSB-RA023437MA01HU | ELISA       | Human, Rabbit              |
| TMEFF2 monoclonal antibody <b>NEW</b>    | CSB-RA883439MA1HU  | ELISA       | Human                      |
| TNFRSF9/4-1BB Monoclonal Antibody        | CSB-RA023984A1HU   | ELISA       | Human                      |
| TPBG monoclonal antibody <b>NEW</b>      | CSB-RA024093MA1HU  | ELISA       | Human, Macaca mulatta      |
| TROP2 monoclonal antibody <b>NEW</b>     | CSB-RA023072MA1HU  | ELISA       | Human                      |
| TSLP Monoclonal Antibody                 | CSB-RA025141A1HU   | ELISA       | Human                      |
| VSIG4 monoclonal antibody <b>NEW</b>     | CSB-RA896869MA1HU  | ELISA       | Human                      |
| ZG16B Monoclonal Antibody <b>NEW</b>     | CSB-RA836195MA1HU  | ELISA       | Human                      |

## Biological Drug Research and Development Service

### Therapeutic Antibody Discovery Targeting Multipass Transmembrane Protein

- Antigen preparation
- Biotinylated protein preparation
- Therapeutic antibody discovery through Hybridoma
- Recombinant antibody preparation
- Single domain antibody preparation

### Antibody Drug Performance Evaluation

- High-throughput screening
- Ligand & receptor binding experiment
- Epitope competition experiment
- Immunological detection and analysis



**CUSABIO TECHNOLOGY LLC**

Postal Address : 7505 Fannin St. Ste 610-322, Houston, TX 77054, USA  
Tel : 301-363-4651 (Available 9 a.m. to 5 p.m. CST from Monday to Friday)  
Email: support@cusabio.com  
Web: www.cusabio.com

