

The logo for Sino Biological, featuring the letters 'SB' in white inside a teal circle, followed by the text 'Sino Biological' in white. The background of the entire page is a teal gradient with various 3D molecular models of proteins and antibodies, some appearing as large, complex structures and others as smaller, more intricate globular proteins.

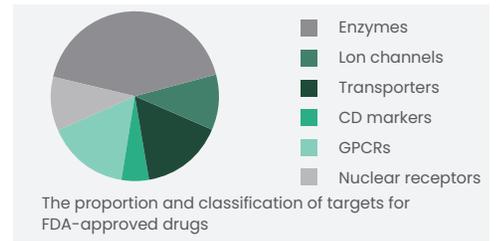
SB Sino Biological

**Reagents for
Drug Target Research**

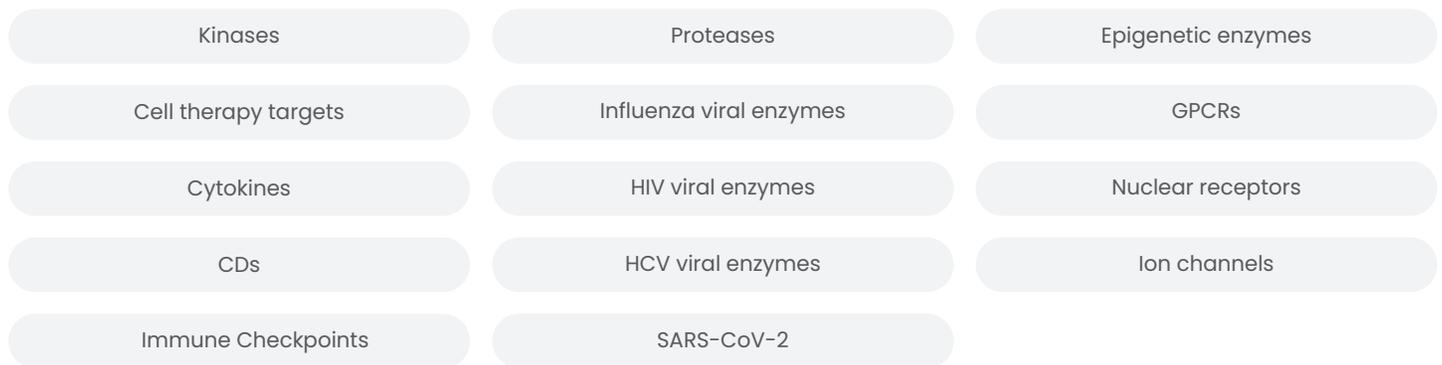
Reagents for Drug Target Research

Drug target research is crucial in mechanism-based drug discovery and development. Currently, the predominant targets of clinically approved drugs include enzymes, G protein-coupled receptors (GPCRs), CD markers, transporters, ion channels, and nuclear receptors. Identifying new therapeutic targets enables the development of new therapies to expand treatment options for improved patient outcomes.

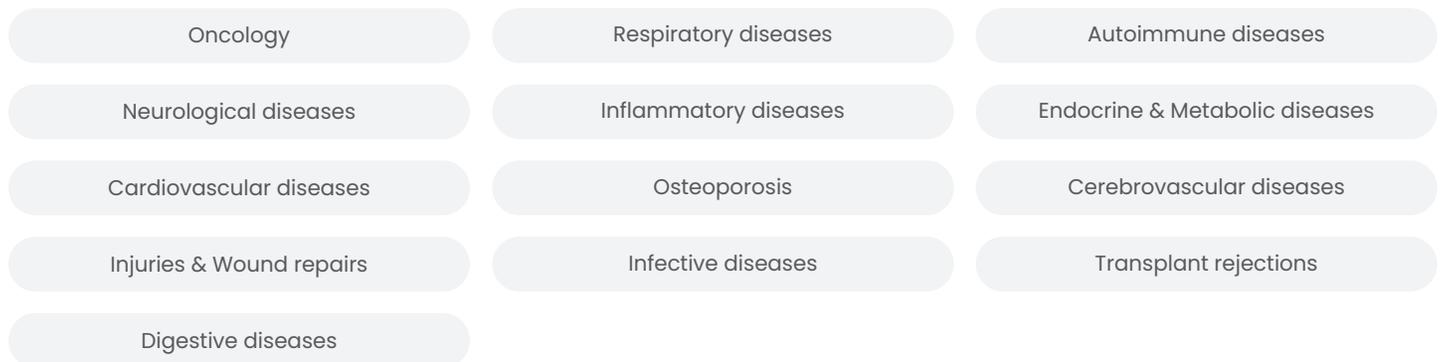
Sino Biological has developed high-quality bioreagents to support the discovery and development of drug targets.



5000+ Reagents for Targeted Biotherapeutics



Multiple Therapeutic Areas



5,000+ Customers Worldwide



Enzyme Proteins as Drug Targets

Enzymes are indispensable for signal transduction and cell regulation, often via kinases and phosphatases. Many of the enzymes are associated with human cancer initiation and progression. For example, the development of small-molecule kinase inhibitors for treating diverse types of cancer has proven successful in clinical therapy. In addition, viruses also contain enzymes for infecting cells (e.g., HIV integrase and reverse transcriptase) or viral release from cells (e.g., influenza virus neuraminidase).

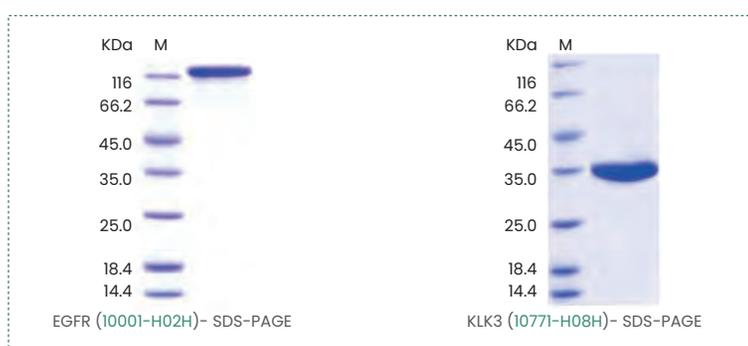
Sino Biological offers a large panel of research reagents to support the study of enzyme proteins as drug targets.

20,000+ Enzyme Research Reagents

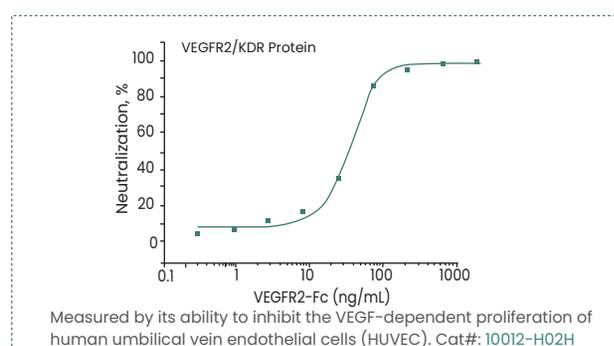
- 1,000+ Proteins
- 2,000+ Antibodies
- 20,000 genes/cDNA
- 800+ molecules
- qPCR Primer/IP Kit/Cell Lysate
- Covering 11 species
- Superior quality
- Lowest price
- Quick delivery

High Quality Enzyme Proteins

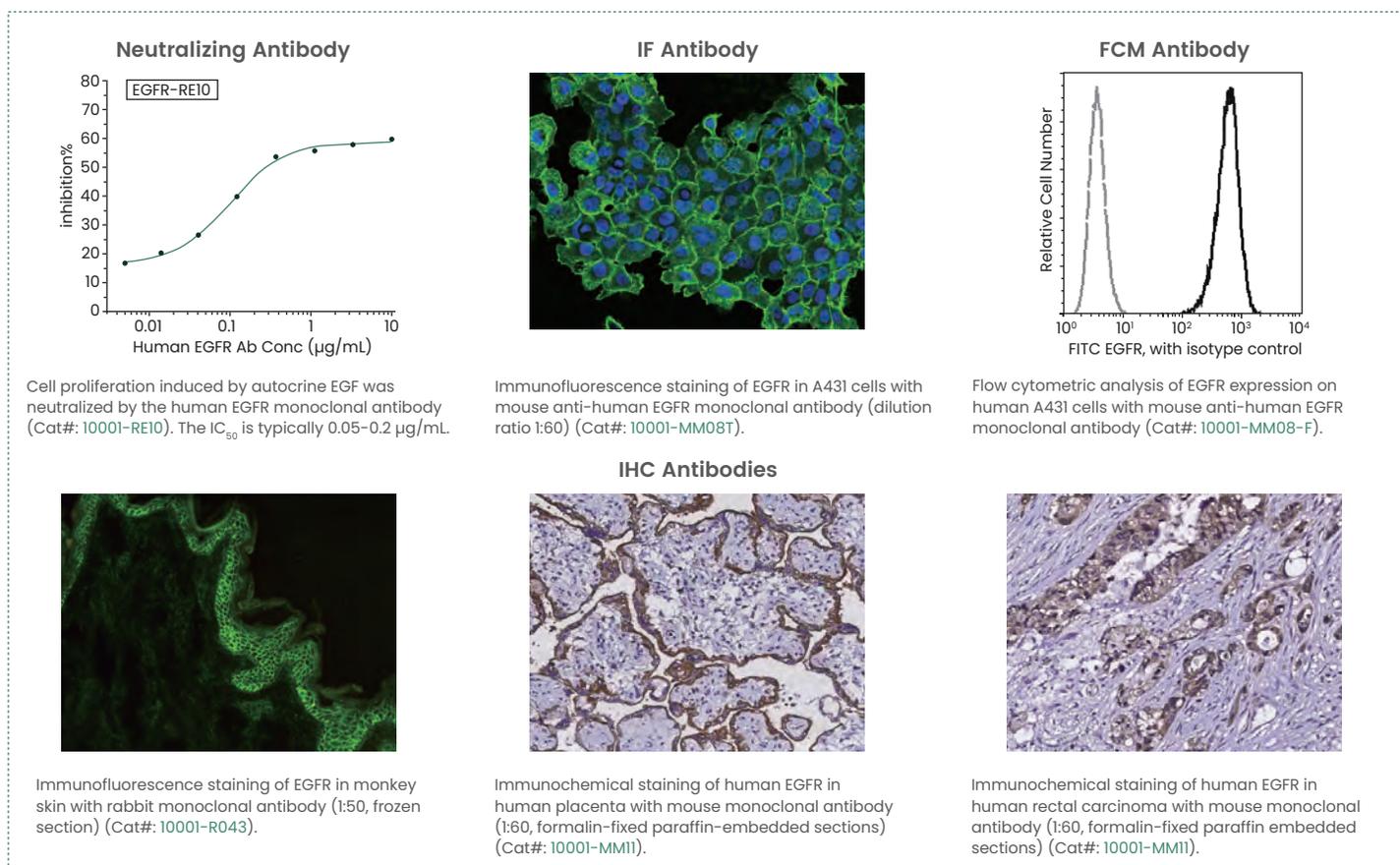
○ High Purity



○ Validated Activity



Antibodies Validated by Various Applications



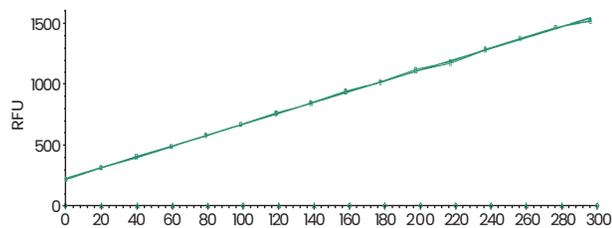
Enzyme Proteins as Drug Targets

Kinases (Partial)

Molecule	Species	Bioactivity	Sequence
EGFR	Human	The specific activity was determined to be >70 nmol/min/mg using Poly (Glu, Tyr) 4:1 as the substrate	Met668-Ala1210
PDGFRA	Human	The specific activity was determined to be 8 nmol/min/mg using MBP as the substrate	Gln551-Leu1089
IGFIR	Human	The specific activity was determined to be 554 nmol/min/mg using Poly (Glu, Tyr) 4:1 as the substrate	Met954-Cys1367
EphA2	Human	The specific activity was determined to be 50 nmol/min/mg using Poly (Glu, Tyr) 4:1 as the substrate	Leu585-Ile976
VEGFR2/KDR	Human	The specific activity was determined to be 10 nmol/min/mg using Poly (Glu, Tyr) 4:1 as the substrate	Asp807-Val1356
ROR1	Human	The specific activity was determined to be 0.3 nmol/min/mg using MBP as the substrate	Met453-Asn783
c-MET	Human	The specific activity was determined to be 10 nmol/min/mg using MBP as the substrate	Lys956-Ser1390
FGFR2	Human	The specific activity was determined to be 28 nmol/min/mg using Poly (Glu, Tyr) 4:1 as the substrate	Met400-Thr821
CD45	Mouse	The specific activity was determined to be 12306 nmol/min/mg using p-nitrophenyl phosphate as the substrate	Arg453-Ser1152

Other Enzymes

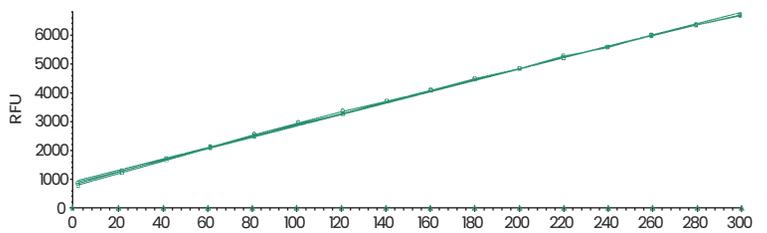
○ Recombinant Human FAP Protein (ECD, His Tag)



Cat#: 10464-H07H

Measured by its ability to convert the substrate benzyloxycarbonyl-Gly-Pro-7-amido-4-methylcoumarin (Z-GP-AMC) to Z-Gly-Pro and 7-amino-4-methylcoumarin (AMC). The specific activity is >1,200 pmol/min/μg

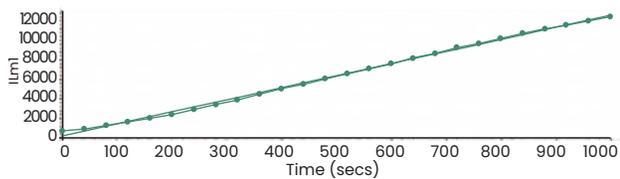
○ Recombinant Human DPP4/CD26 Protein



Cat#: 10688-HNCH

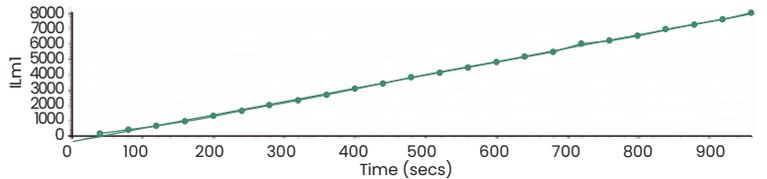
Measured by its ability to cleave the fluorogenic peptide substrate, Gly-Pro-7-amido-4-methylcoumarin (GP-AMC). The specific activity is >2,500 pmol/min/μg

○ NA: Enzymatic Activity



Cat#: 40767-V08B (H1N1, A/Brisbane/02/2018)

Measured NA's ability to cleave 2'-(4-Methylumbelliferyl)-α-D-N-acetylneuraminic acid. The specific activity is 40296 pmoles/min/μg.



Cat#: 40569-V08B (H3N2, A/Hong Kong/4801/2014)

Measured NA's ability to cleave 2'-(4-Methylumbelliferyl)-α-D-N-acetylneuraminic acid. The specific activity is 29781 pmoles/min/μg.

Protein Molecules (Partial)

DPP4/CD26

Factor IX

ENTPD3

PRSS2

CD73

Carbonic Anhydrase IX

FAP

CD39

ADAM17

MMP-9

CD38

Chymotrypsin C

LOXL2

PRSS3

Kallikrein 8

Cathepsin B

Cathepsin S

ADAM8/CD156a

CD Markers as Drug Targets

CD antigens are currently used widely for research, immunotherapy, cancer therapy, and drug target discovery. CD antigens can act as markers to identify cell type or stage of differentiation, as signaling receptors to alter the behavior of cells, and as cell adhesion molecules in the extracellular matrix. They are also popular cell surface targets for therapeutic antibodies tagged with drugs or radiation-emitting substances to initiate cell population. Sino Biological has developed high-quality bioreagents to support the research of CD molecules.

16,000+ CD Antigen Products

- 1,200+ Proteins
- 2,500+ Antibodies
- 10,000+ genes/cDNA
- Quick delivery
- qPCR Primer/IP Kit/Cell Lysate
- Covering 9 species
- 340+ molecules
- Superior quality
- Lowest price

■ CD52	■ CD22
■ CD40	■ CD20
■ CD37	■ CD19
■ CD23	■ CD5



CD Antigen Products for Different Cell Population

Sino Biological has developed protein, antibody, and gene products of different CD molecules

Recombinant CD8 Proteins

o Binding Activity Validated

Cat#	Species	Monomer	Validated Activity
10980-H08H	Human	CD8α	Bind with Lck, B2M, FCGRT & B2M
50389-M08H	Mouse	CD8α	
60001-F08H	Ferret	CD8α	

o CD8 from Various Species Available

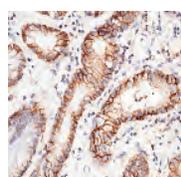
Cat#	Species	Monomer	Tag
80285-R02H	Rat	CD8α	Fc
90888-C02H	Cynomolgus	CD8α	Fc
11031-H02H	Human	CD8α	Fc
CT075-H2508H	Human	CD8α & CD8β	His
CT076-M2508H	Mouse	CD8α & CD8β	His

High Quality Protein Products

	Key Antigens Human	Key Antigens Mouse
T Cell	CD3 CD4 CD8	CD3 CD4 CD8
B Cell	CD19 CD20	CD19 CD20
Dendritic Cell	CD11c CD123	CD11c CD123
Erythrocyte	CD235a	CD235a
Monocyte	CD33	CD33
Granulocyte	CD66b	CD66b
Platelet	CD41 CD61 CD62	CD41 CD9 CD62
Endothelial	CD146	CD31 CD106 CD146
NK Cell	CD56	CD335
Stem Cell	CD34	CD34
Macrophage	CD14	CD11b
Epithelial	CD326	CD326

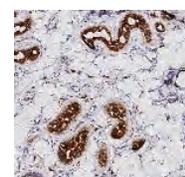
Antibodies Validated by Various Applications

IHC



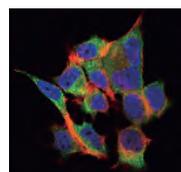
CD71(11020-R016)-human placenta

Breast cancer



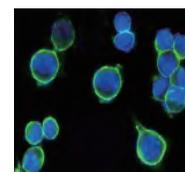
CD117-IHC-P:(11996-R351)

IF



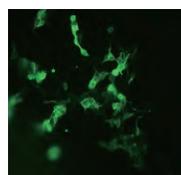
CD114(10218-MM03)-MCF7 cells

IP



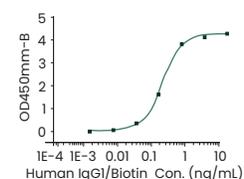
CD340(10004-R511)-SKBR3 cells

CD47 expression plasmid



Transfected into 293H adherent cells Cat: HG12283-CF

ELISA FCGR2B / CD32b protein



bind to human IgG1 (Cat: 10259-H08H)

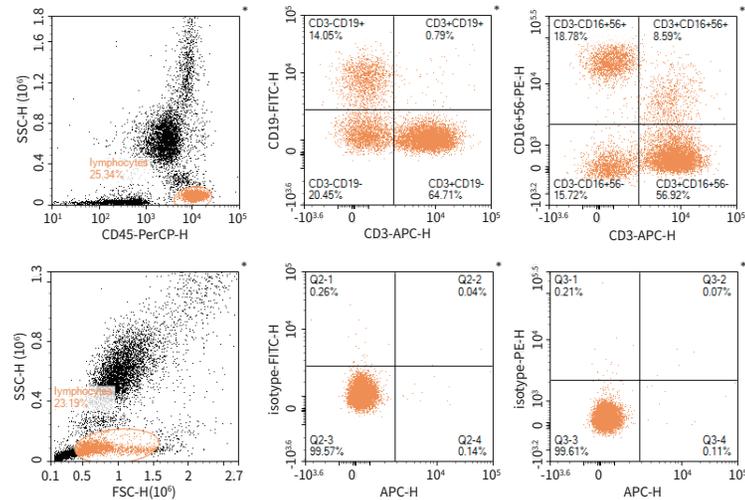
CD Markers as Drug Targets

Flow Cytometry (FACS) Antibodies in Immune Profiling

Sino Biological has developed various antibodies that can be used in immune profiling.

T cell, B cell, NK cell detection: CD3/CD16/CD56/CD19/CD45 Panel

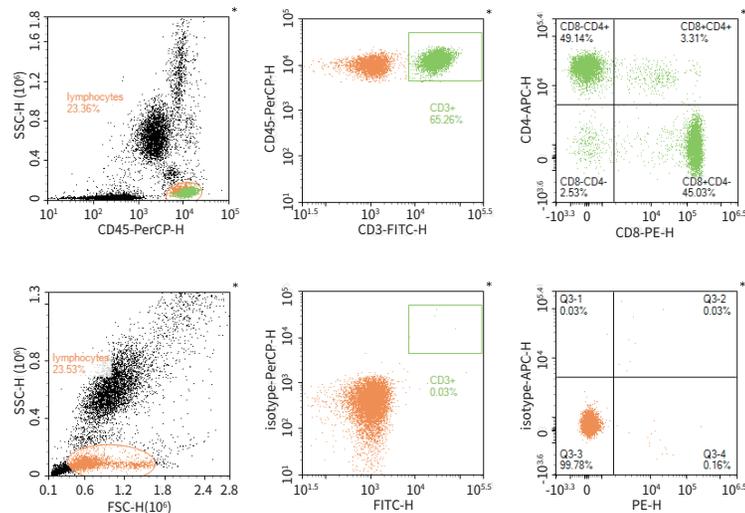
CD3/CD16/CD56/CD19/CD45 detects the following components in whole blood samples after red blood cell lysis. Proportion of mature lymphocyte subsets: T lymphocytes (CD3+), B lymphocytes (CD19+), NK cells (CD3-CD16+ and/or CD56+).



Target	Tag	Cat #
CD45	PerCP	10086-MM05-C
CD3	APC	CT026-R301-A
CD19	FITC	11880-MM17-F
CD16	PE	10389-MM22-P
CD56	PE	10673-MM05-P
mouse IgG1 isotype	PerCP	
mouse IgG1 isotype	PE	
mouse IgG1 isotype	FITC	

T cell detection: CD3/CD4/CD8/CD45 Panel

CD3/CD4/CD8/CD45 is used to detect the expression of CD3, CD4, and CD8 in human biological specimens, and to analyze leukemia and lymphatic subgroups. This panel can identify the percentage and absolute counts of mature T lymphocytes (CD3+), helper T lymphocytes (CD3+CD4+) and cytotoxic T lymphocytes (CD3+CD8+) subsets from whole blood samples.

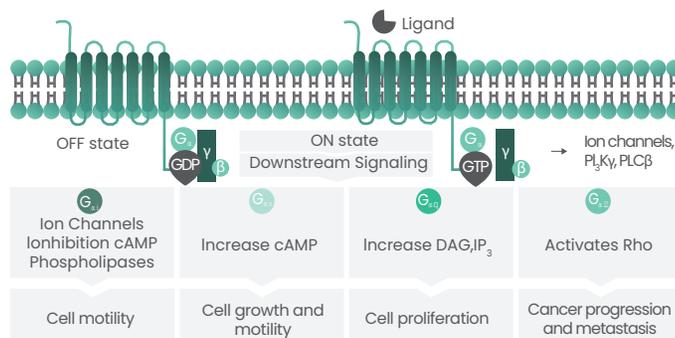


Target	Tag	Cat #
CD45	PerCP	10086-MM05-C
CD3	FITC	CT026-R301-F
CD4	APC	10400-MM08-A
CD8	PE	10980-MM48-P
mouse IgG1 isotype	PerCP	
mouse IgG1 isotype	APC	

For more FACS antibodies, please visit <https://cn.sinobiological.com/category/fcm-facs-antibody>

G protein-coupled receptors (GPCRs)

G protein-coupled receptors (GPCRs) are the largest superfamily of membrane proteins in human. They are integral membrane proteins with seven membrane-spanning helices. GPCRs recognize a variety of ligands and stimuli including peptide and non-peptide hormones and neurotransmitters, chemokines, prostanoids and proteinases, biogenic amines, nucleosides, lipids, growth factors, odorant molecules and light. Sino Biological offers a panel of protein, antibody, and gene products to support the research of GPCR as drug targets.



Products for GPCRs Research

Sino Biological has developed protein, antibody, and gene products of different GPCR molecules.

High Quality Protein Products (Partial)

Frizzled 10

CD44

Frizzled 2

Frizzled 4

Frizzled 5

Frizzled 6

PACAP receptor/ADCYAP1R1

GPR37

Thrombin Receptor

PTH1R

Featured Antibody Products (Partial)

CCR2

CCR3

CCR5

CXCR5

CXCR4/CD184

FZD1

MRGPRF

CCR1

IL8Ra/CXCR1/CD181

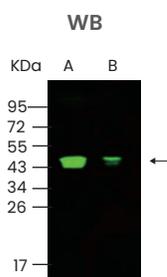
CXCR3

ADRA2B

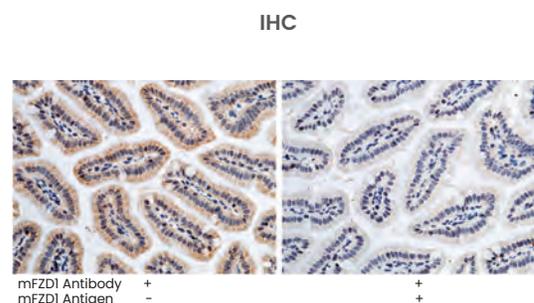
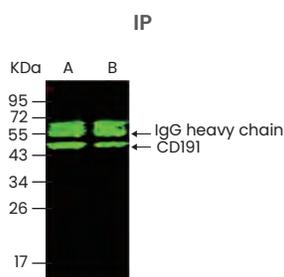
ADRB2

GRIK2

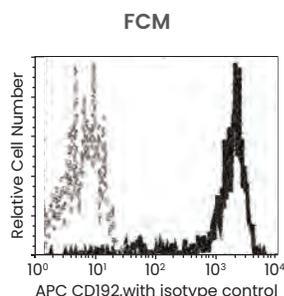
Antibodies Validated by Various Applications



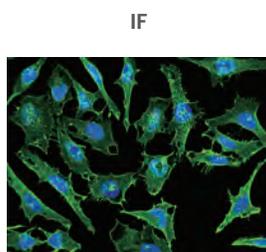
Anti-CCR1/CD191 Cat#: 100449-R002 Anti-CCR1/CD191 Cat#:100449-R002



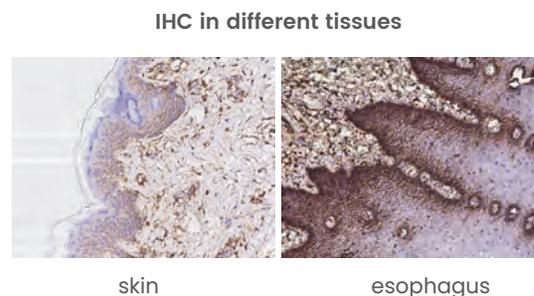
Anti-FZD1 Antibody Cat#: 50092-RP02



Flow cytometric analysis of Human CD192 expression on human whole blood monocytes.
Anti-CCR2 Antibody (APC), Cat#: 100450-MM02-A



Immunofluorescence staining of Human CD44 in HeLa cells.
Recombinant Anti-CD44 Antibody, Cat#: 12211-T62



Immunochemical staining of human CD44 in human skin and esophagus.
Anti-CD44 Antibody, Cat#:12211-T62



Sino Biological US Inc. (U.S.A)

Address: 1400 Liberty Ridge Drive, Suite 101,
Wayne, PA 19087

Tel: +1-215-583-7898 Fax: +1-267-657-0217

Email: order_us@sinobiologicalus.com

Sino Biological Europe GmbH (Europe)

Düsseldorfer Str. 40, 65760 Eschborn, Germany

Tel: +49(0)6196 9678656

Fax: +49(0)6196 9678657

Email: order_eu@sinobiologicaeu.com

Sino Biological, Inc. (Global)

Address: Building 9, No.18 Kechuang 10th St, BDA
Beijing, 100176, P.R.China

Tel: +86-400-890-9989

Fax: +86-10-5095-3282

Email: order@sinobiological.com

www.sinobiological.com



Follow us on

