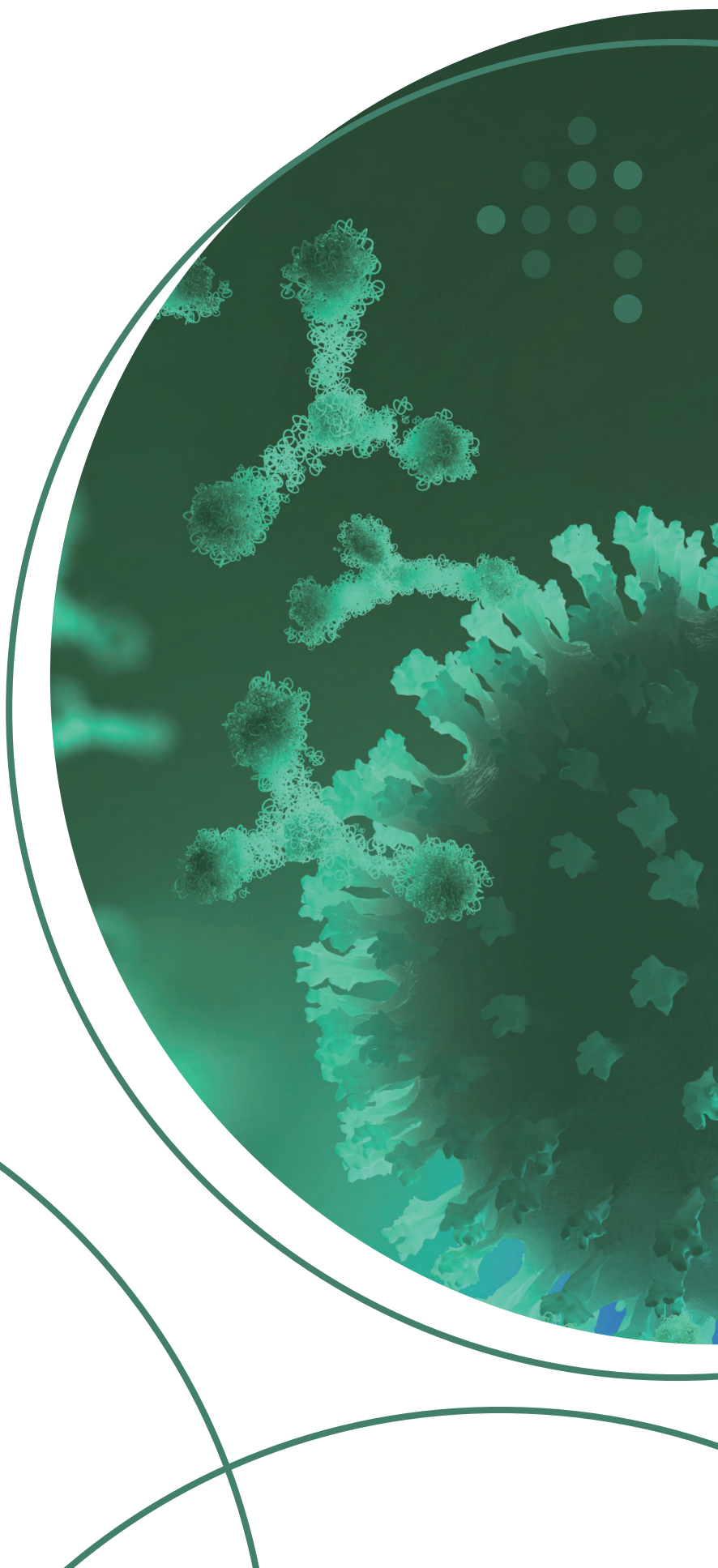
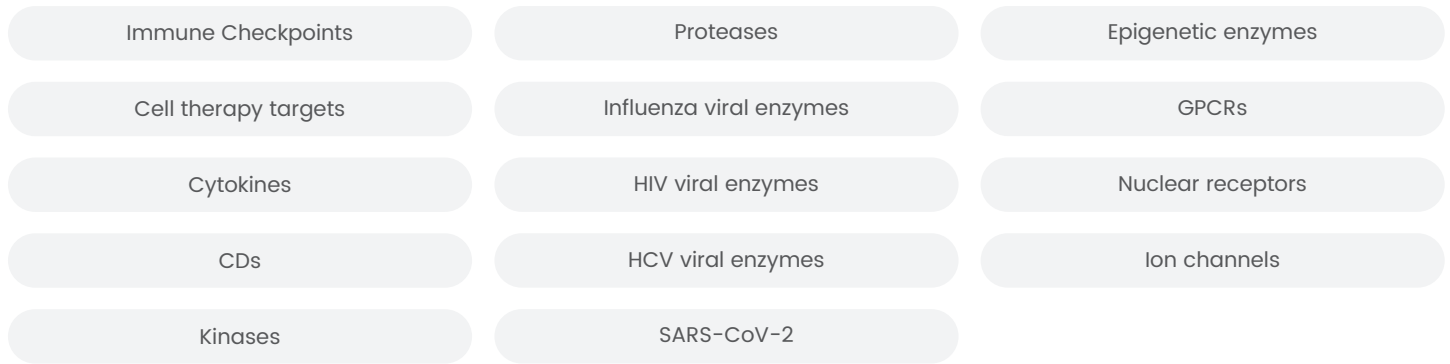


Drug Target Reagents

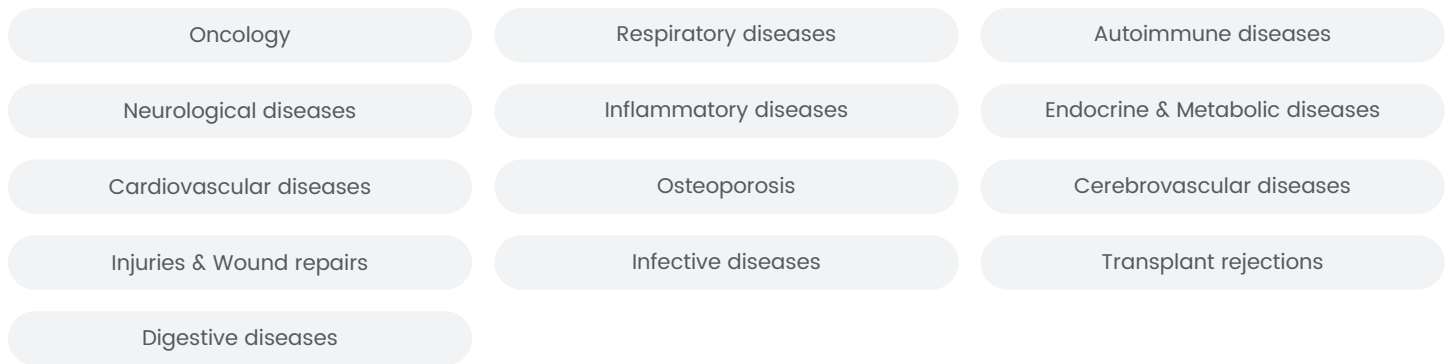
Support Drug Discovery &
Development



5,000+ Recombinant Proteins for Targeted Biotherapeutics



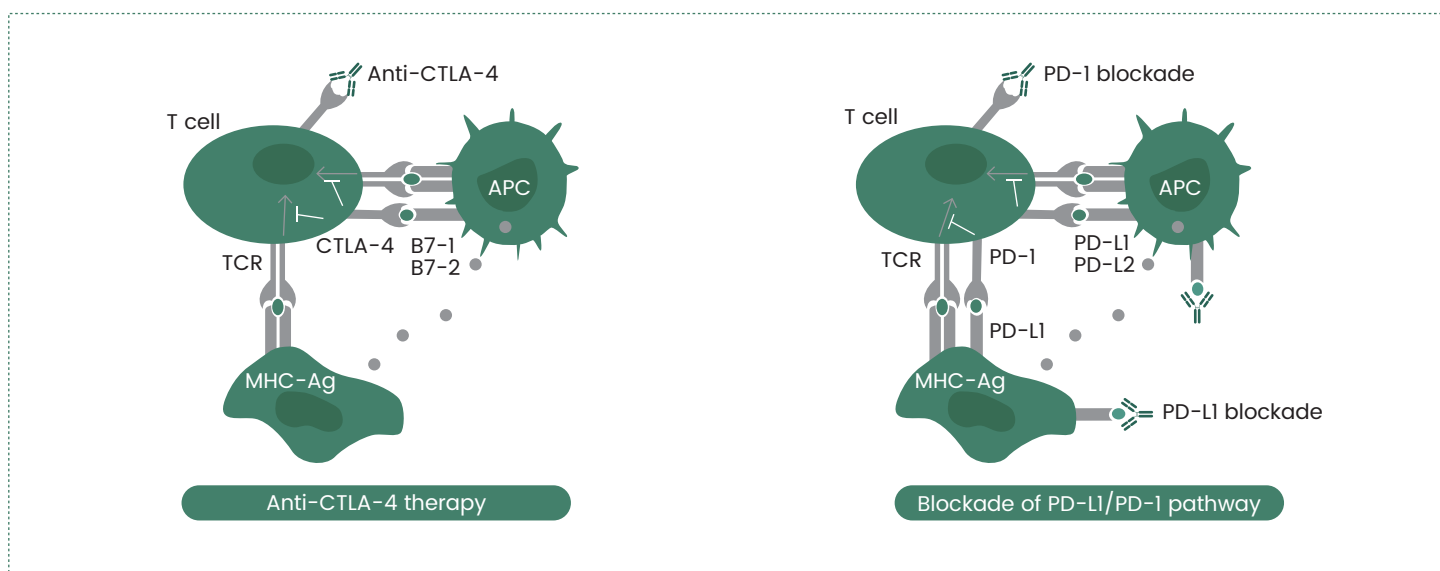
Multiple Therapeutic Areas



5,000+ Customers Worldwide



Immune Checkpoint Related Reagents



Protein Molecules (Partial)

PDCD1	PD-L1	PD-L2	TIGIT	CD155/PVR	PVRIG	PVRL1/NECTIN1
Nectin-2	Nectin 3	NECTIN4/Nectin 4	CD96	CD226	CD137	4-1BBL/TNFSF9
CTLA-4	CD28	B7-1	CD86	CEACAM1	CEACAM3	CEACAM5
CEACAM6	CD66b	LAG3	CD47	SIRP alpha	SIRP gamma/SIRPG	CD40 Ligand
CD40	OX40	OX40L/TNFSF4	B7-H3	B7-H3(4ig)	B7-H4	VISTA
B7-H6	HHLA2	NKp44/NCR2	NKp30/NCR3	TMIGD2	LILRA1/LIR-6/CD85i	LILRA2
LILRA3	LILRA4/CD85g	LILRA5	LILRA6	LILRB1	ILT4	LILRB3
ILT3	LILRB5/CD85c	TIM-3	CD30/TNFRSF8	CD30L	ICOS	ICOS ligand
CD70	CD27	TNFSF18	GITR	LIGHT	CD160	BTLA
HVEM	SLAM/CD150	CD48	CD229	2B4/CD244	CD84	SLAMF6
SLAMF7/CD319	LAIR1	LAIR2	SIGLEC5	CD22	CD33	SIGLEC6
SIGLEC10	SIGLEC15	BTN3A1	BTN3A3	HMGB1	RAGE	NKG2A
NKG2D	KIR2DL1	KIR2DL3	KIR2DL4	KIR2DL5	KIR3DL3	MICA
MICB	DR3					

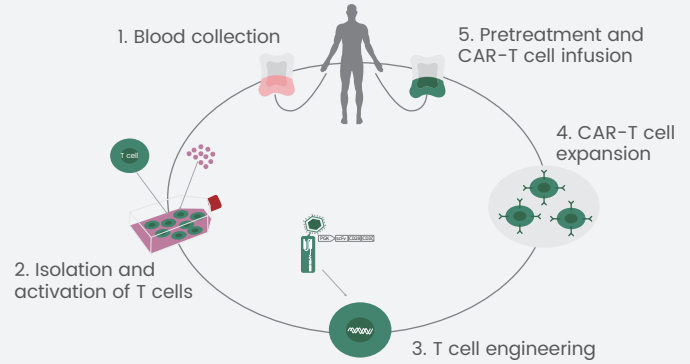
Neutralizing Antibodies

Species	Molecule	Application	Cat#
Human	PD1	Neutralization, Block	10377-HN94
Human	PD1	Neutralization, Block	10377-HF06
Human	PD1	Block	10377-mhT28
Human	PD-L1	Block	10084-R639

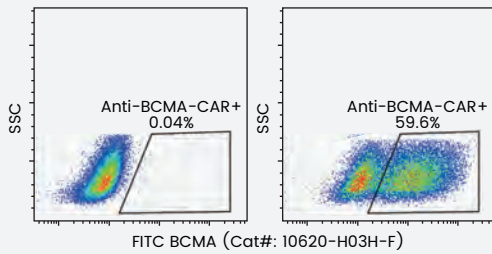
Effect of Human PD1 antibody (Cat#: 10377-HN94) on IFN-gamma and IL2 production in the Mixed Lymphocyte Reaction (MLR).

CAR-T Cell Therapy Related Reagents

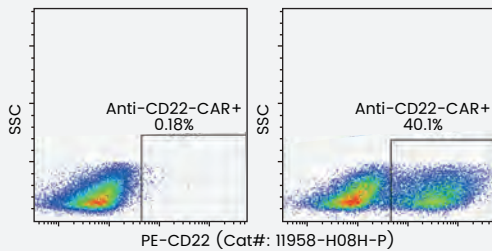
Chimeric Antigen Receptor T cell therapy, or CAR-T cell therapy, has been widely used in the field of cancer immunotherapy.



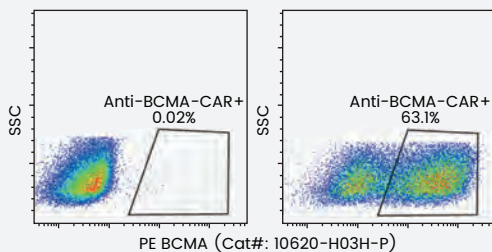
Bioactivity Validated by FACS



293 cells were lentivirally transduced with anti-BCMA CAR. Flow cytometric analysis was performed with FITC-conjugated recombinant human BCMA. Non-transduced 293 cells were used as a control (left).



Human T cells were lentivirally transduced with anti-CD22 CAR. Flow cytometric analysis was performed with PE-conjugated recombinant human CD22. Non-transduced T cells were used as a control (left).



293 cells were lentivirally transduced with anti-BCMA CAR. Flow cytometric analysis was performed with PE-conjugated recombinant human BCMA. Non-transduced 293 cells were used as a control (left).

Conjugated Proteins (Partial)

Molecule	Conjugation
BCMA	PE/FITC/Biotinylated
CD22	PE/Biotinylated
CD33	PE/FITC/Biotinylated
CD38	PE/FITC/Biotinylated
ROR1	Biotinylated
EpCAM	Biotinylated
EGFR	Biotinylated
Her2/ERBB2	Biotinylated
VEGFR2/KDR	Biotinylated
ULBP1	Biotinylated
ULBP2	Biotinylated

More Targets

CD19	PD-L1	CD30/TNFRSF8
BCMA	CEACAM5	FAP
CD22	FOLR1	IL3RA
CD33	PD-1	NCAM
CD38	EGFR	ULBP1
Glypican 3	Her2/ERBB2	c-MET
ROR1	VEGFR2/KDR	ULBP2
EpCAM	MUC1	EphA2
Mesothelin	CD70	PSMA
CD20	Syndecan-1/CD138	LICAM
CD5	Carbonic Anhydrase IX	IL13RA2
CD7	ILIRAP/IL-1RAcP	

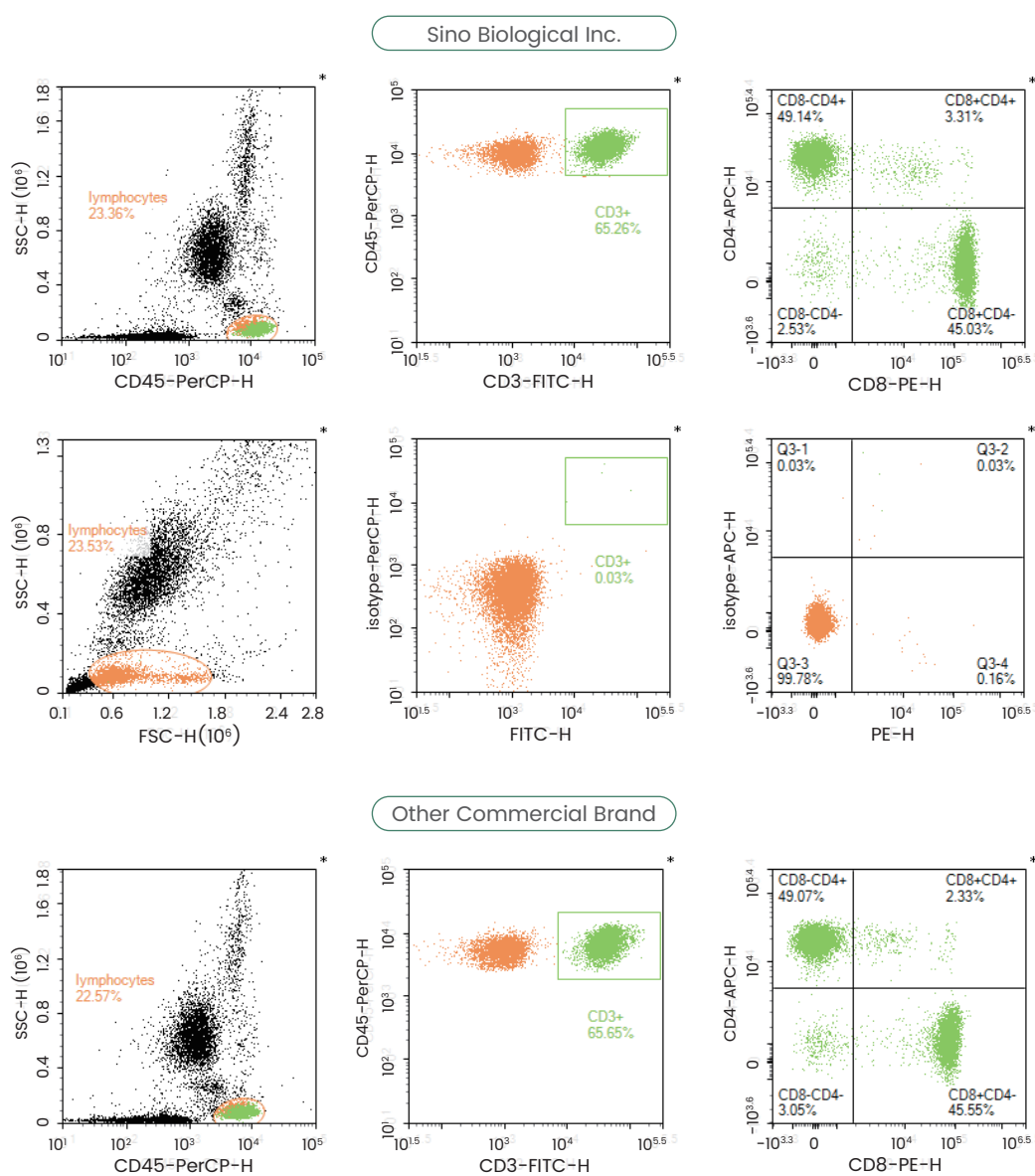
Flow Cytometry (FACS) Antibodies

○ T cell: CD3, CD4, CD8, CD45

Target	Conjugate	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	

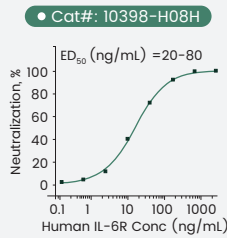
Notes: More FACS Antibodies, please visit www.sinobiological.com

The FACS antibodies target CD3/CD4/CD8/CD45 are used to identify the percentage and absolute count of human mature T lymphocyte (CD3+) and inhibitory/cytotoxic (CD3+CD8+) T lymphocyte subsets in whole blood.

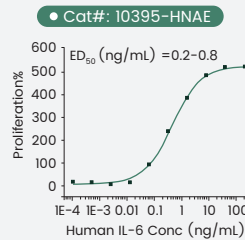


Cytokine

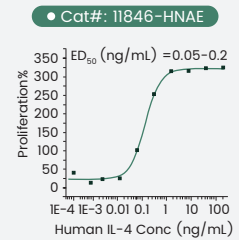
Bioactivity Validated by Cell Based Assay



Measured by its ability to enhance the IL6 activity on M1 mouse myeloid leukemia cells.



Measured in a cell proliferation assay using TF-1 human erythroleukemic cells.



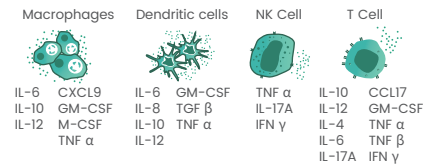
Measured in a cell proliferation assay using TF-1 human erythroleukemic cells.

○ Protein Molecules (Partial)

GDF-8	GM-CSF	HGF	IGF1	IGF-II	VEGFA	IL-1 beta	IL-15	TGF beta 1	CD122/IL2RB	IL7R alpha/CD127
IL17F	IL17RA	IL-18	IL18R1	IL2	IL21	IL3	IL-4	TNF beta	CD25/IL2RA	Interferon Gamma
IL-6	IL-6R	IL-7	M-CSF	NGF	RSPO1	IL4R	IL17	TNF-alpha	IL-1 alpha	

ELISA Kits for Cytokine Detection

Based on the well-established recombinant protein platform, antibody technology platform, and QC platform, Sino Biological Inc. has developed a variety of ELISA Kits for the quantitative detection of cytokines, which can be used to accurately quantify cytokines in plasma, serum, cell culture supernatant, and other biological samples.



○ 8 International QC Test Indicators for High-quality ELISA Kits



○ ELISA Kits —Ready to Use

Species	Target	Cat#	Linear range (pg/ml)	Sample
Mouse	IL1A	KIT50114	6.56-420	S, C
Human	IL2	KIT11848	18.75-1200	S, C, P
Human	IL4	KIT11846	10.94-700	C
Human	IL5	KIT15673	4.69-300	C
Human	IL6	KIT10395A	5.47-350	S, C
Human	IL8	KIT10098	2.5-160	C
Human	IL10	KIT10947A	18.75-1200	C
Human	TNFα	KIT10602	31.25-2000	C
Human	IFNγ	KIT11725A	23.44-1500	C

Notes: S (Serum); C (Cell culture supernatant); P (Plasma)

○ ELISA Pair Sets —Cost effective

Species	Target	Cat#	Linear range (pg/ml)
Mouse	IL1A	SEK50114	6.25-400
Human	IL1B	SEK10139	78.13-5000
Human	IL4	SEK11846	7.81-500
Human	IL5	SEKA15673	3.91-250
Human	IL6	SEKB10395	9.38-600
Human	IL8	SEK10098	11.72-750
Human	IL10	SEKA10947	14.06-900
Human	TNFα	SEKA10602	39.06-2500
Mouse	TNFα	SEK50349	31.25-2000
Ferret	TNFα	SEK60002	78.13-5000
Human	IFNγ	SEKA11725	21.88-1400

Notes: More ELISA Kits, please visit www.sinobiological.com

Neutralizing Antibodies

Species	Molecule	Application	Cat#
Human	TNF	FCM, Neutralization	10602-R10N1
Mouse	TNF	Neutralization	50349-RN023
Human	HGF	Neutralization	10463-mh010

Species	Molecule	Application	Cat#
Human	VEGFA	Neutralization	11066-R010
Human	IL17A	Neutralization	12047-M237
Human	TNFRSF1A	Neutralization	10872-R111

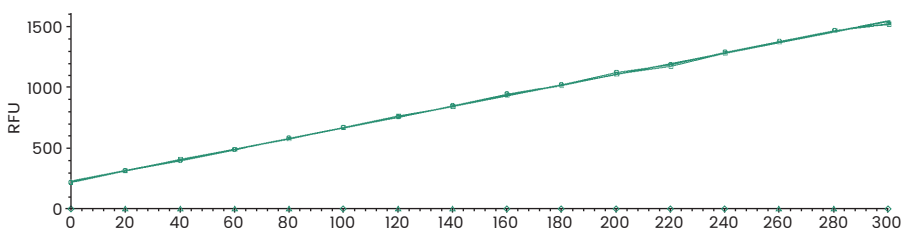
Target Protein with Enzymatic Activity

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

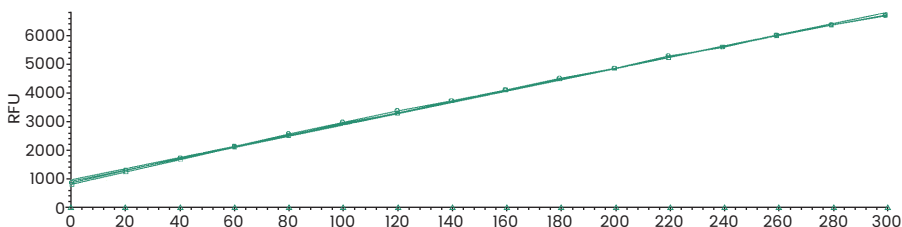
○ Recombinant Human FAP Protein (ECD, His Tag)



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

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

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