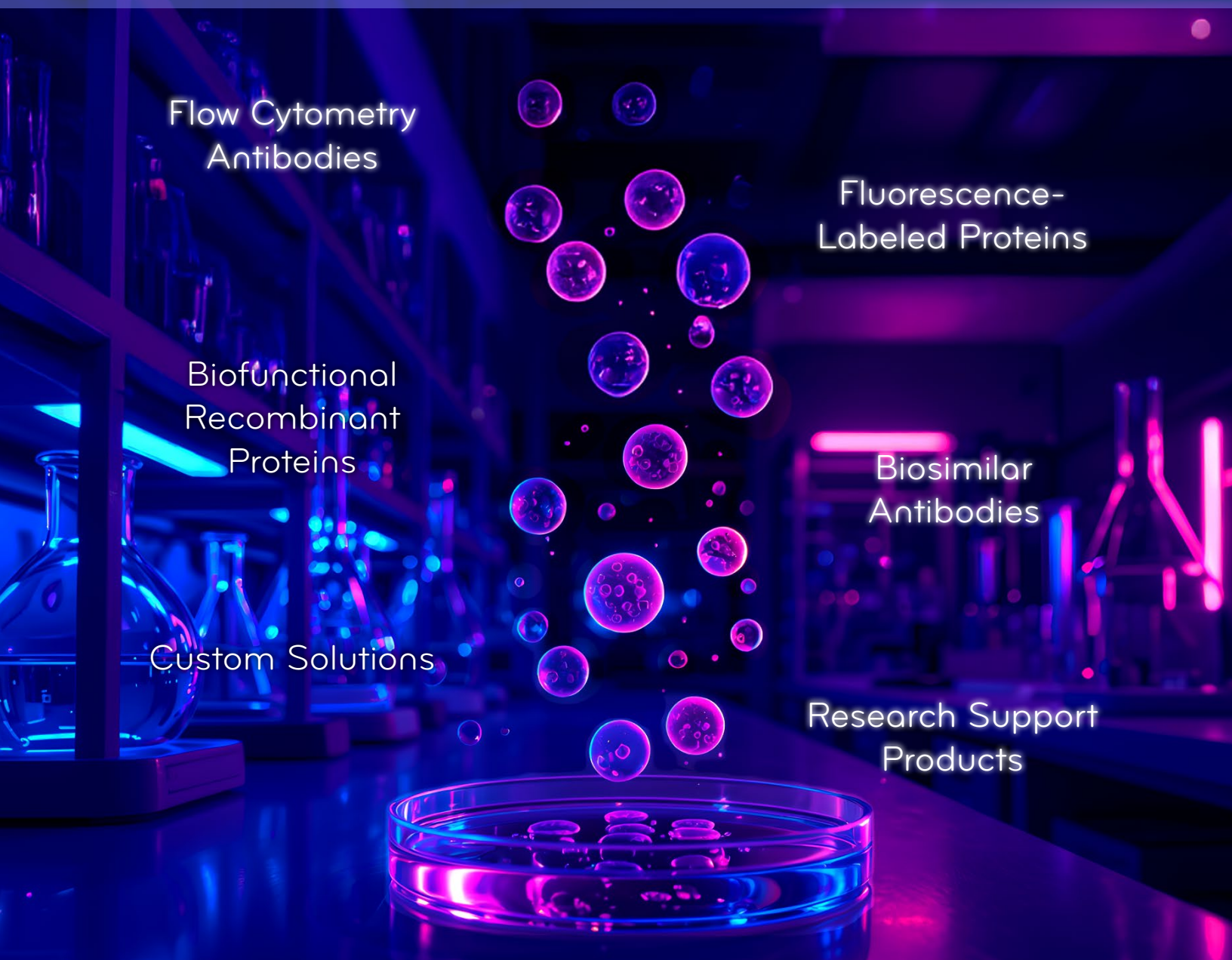
InnoCyto

Quality Solutions. Consistent Results.
Transformative Discovery

PRODUCT BROCHURE



About InnoCyto

Dedicated to Empowering Cellular Discovery

At InnoCyto we are dedicated to accelerating scientific discovery through the development of high-quality cell analysis reagents. Our mission is to empower researchers with the tools they need to uncover insights at the cellular level, driving innovation in immunology, oncology, and beyond.

Founded by an experienced team of experts that helped build highly successful programs at one of the world's leading life science companies, we understand the demands of modern science across both industry and academic research. Our reagents are engineered for precision, consistency, and performance, so scientists can focus on what matters most: their research.

By combining deep scientific knowledge with a commitment to quality, we aim to be a trusted partner to researchers around the world, helping push the boundaries of what's possible in life science.

Uplifting Activation Energy

At InnoCyto, we don't just support discovery — we catalyze it.

In chemistry, activation energy is what it takes to spark a reaction — to get discovery started. At InnoCyto, we believe in uplifting that energy for researchers by removing the barriers that slow innovation. Our products and partnerships are designed to accelerate progress in the lab, empowering scientists to move from idea to insight faster and with greater confidence.

At the heart of our work is a simple belief: great science happens when solution providers and researchers work together. We partner with laboratories, principal investigators, and industry teams to translate real research challenges into reliable tools and tailored solutions. That partnership drives everything we make from product design to support, pricing, and continual improvement, so scientists can focus on discovery with confidence.

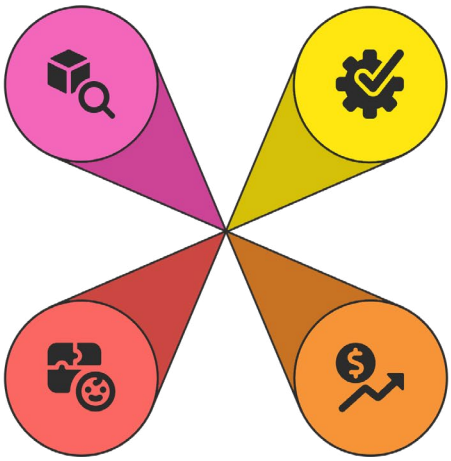
Why Do Scientists Choose InnoCyto?

Unique Product Portfolio

Enabling research solutions that cannot be found elsewhere.

Reliable Performance

Reagents developed under stringent quality standards for reproducibility.



Customization Flexibility

Custom protein and antibody services enable tailored solutions.

Exceptional Value

High quality reagents offered at unbeatable prices.

Product Portfolio Overview

Catalyzing Discovery with Trusted Reagents for Cell-Based Research

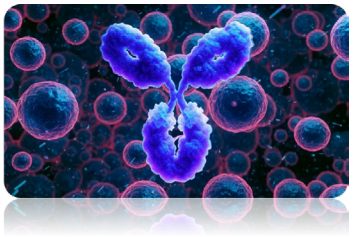
Precision tools for reproducible research outcomes

We are committed to advancing scientific discovery through high-quality reagents and solutions that deliver reproducibility and reliability.

Our portfolio spans antibodies, recombinant proteins, and research support products, all designed to help scientists achieve consistent and meaningful results.

Our Product Categories

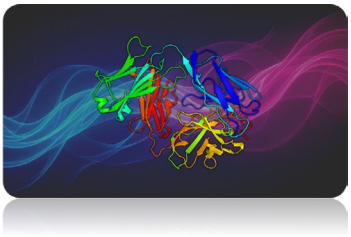
Products are for Research Use Only.



Antibodies

Validated primary and secondary antibodies, biosimilars, isotype controls, and conjugates optimized and quality tested for specific applications.

- Flow Cytometry Antibodies
- Functional Antibodies
- Biosimilar Antibodies



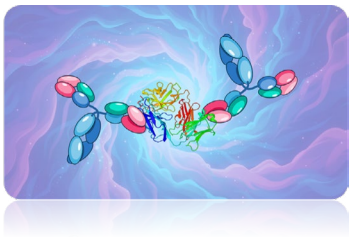
Recombinant Proteins

Biofunctional proteins, receptors, ligands, purified or fluorescently labeled, produced with consistent expression and purification standards, supporting assays, cell signaling, and diagnostic development.

- Fluorescence Labeled Proteins
- Enzymes, Receptors, & Other Proteins

Ancillary Reagents

Complementary research support products including buffers, labeling kits, and protein purification systems, providing flexible solutions for everyday research needs.



Multiplex Immunoassays

One sample, many answers. Bead-based flow cytometric assays for the quantitation of human and mouse cytokines, and Alzheimer's Disease biomarkers.

Custom Services

Empowering Discovery Through Custom Solutions

At InnoCyto, we combine deep scientific expertise with advanced biotechnological platforms to support your research and development goals. Our team specializes in the design and production of biofunctional recombinant proteins and highly specific antibodies, complemented by premium-quality conjugation products tailored to your needs.

Every custom project is a collaboration. Our scientists work closely with your team, maintaining open communication, data transparency, and flexibility from design through delivery. *Your success is our success.*

Our Capabilities

Recombinant Protein Development

Expression and purification of biofunctional proteins with precise structure and activity.

Conjugation Services

High-quality labeling and conjugation to enhance detection, targeting, or assay performance.

Custom Antibody Generation

Recombinant monoclonal antibodies engineered for superior specificity and affinity with minimal non-specific binding.

Cell-Based Assay Development

Cell line development (KO/KD, gene editing, overexpression, etc.), cytotoxicity, proliferation, and much more.

Our Process

1. **Consultation & Design** – Define objectives, specifications, and feasibility.
2. **Development & Expression** – Construct design and optimized expression in suitable host **systems.**
3. **Purification & Characterization** – Multi-step purification, QC validation, and activity testing.
4. **Delivery & Support** – Comprehensive data package and dedicated technical support.

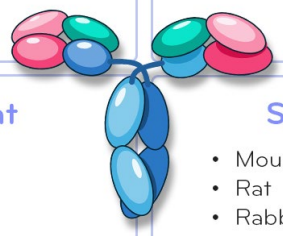
Antibody Customization Options

Subtype

- Mouse IgG1, 2a, 2b, 3
- Rat IgG1, 2a, 2b, 2c
- Human IgG1, 2, 3, 4
- Other

Isotype

- IgG
- IgA
- IgE
- IgM
- IgD



Format

- scFV
- Bispecific
- Fab
- Ab-Cytokine Chimera
- Other

Species

- Mouse
- Rat
- Rabbit
- Human

Technology

Recombinant Proteins & Antibodies

Recombinant protein and antibody technologies have revolutionized biotechnology and molecular biology, enabling precise engineering of biological molecules that drive breakthroughs in healthcare, pharmaceuticals, and research. At InnoCyto, we specialize in the custom development and manufacturing of these advanced proteins and antibodies, transforming genetic designs into high-performance biological products. Our cutting-edge antibody discovery system identifies candidates with superior sensitivity and specificity to support diagnostics and therapeutics. By combining advanced platforms with deep scientific expertise, InnoCyto delivers tailored solutions that power innovation and scientific excellence.

Recombinant Proteins

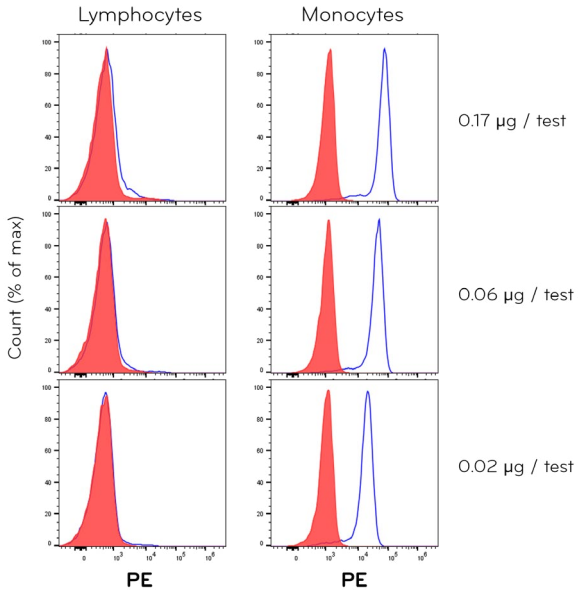
At the heart of modern biotechnology, recombinant protein technology transforms genetic information into functional biomolecules. By identifying and cloning a target gene into host systems such as *E. coli*, yeast, insect cells, or mammalian cells, our scientists can precisely produce proteins with desired properties. These proteins power a wide range of innovations from life-saving therapeutics to industrial enzymes and cutting-edge research tools that drive discovery.

Recombinant Antibodies

Recombinant antibody technology delivers precision tools for detecting and targeting specific molecules. Using advanced monoclonal recombinant methods to engineer Fc regions and reduce non-specific binding, we can design antibodies with high specificity and reproducibility, unmatched by conventional hybridoma techniques. These engineered antibodies are transforming diagnostics, enabling targeted therapies, and serving as indispensable tools in exploring protein interactions and cellular pathways.

Antibody Engineering Optimizes Function and Yield

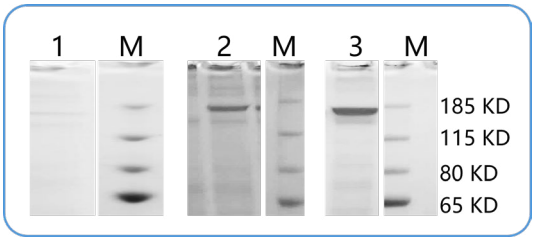
Minimized Non-specific Binding of Fc Silent Rabbit IgG κ2



Human PBMCs stained with Fc Silent Rabbit IgG κ2 at the indicated concentrations (red histograms) or Rabbit IgG κ2 control (clear histogram) and then stained with PE anti-Rabbit IgG secondary antibody.

Optimized processes increase yield by 80-fold over standard protocols

Day 3 cell culture supernatant of anti-HLA-G antibody

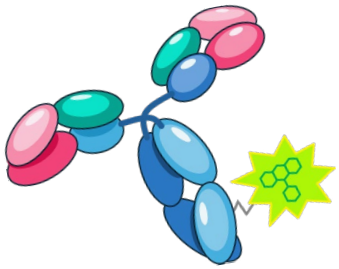


1.	Standard protocol	1.45mg/L
2.	Optimize feeding and transfection	20mg/L
3.	Antibody engineering	120mg/L

Learn more at: www.innocyto.com/web/services.php

Custom Conjugation

High-performance labeling for antibodies, proteins, and peptides



At InnoCyto, we specialize in precision conjugation services that bring accuracy and consistency to your research assays. With advanced technologies and extensive experience in biomolecule modification, we deliver conjugates that meet the highest standards of purity, efficiency, and reproducibility.

Our Conjugation Capabilities

Conjugates Available

- Fluorophores
- Oligonucleotides
- Biotin & Streptavidin
- Horseradish Peroxidase (HRP)
- Particle Beads
- Dual Labels (Fluorophore + Oligonucleotide)

Compatible Targets

- Antibodies
- Proteins
- Peptides

Available Fluorophores

FITC	PE
iF405	PE/Cy5.5
iF488	PE/Cy7
iF546	PE/iF594
iF560	APC
iF594	APC/Cy5.5
iF610	APC/Cy7
iF647	PerCP
iF700	PerCP/Cy5.5
Pacific Blue	PerCP/Cy7

Dual Labeling - Fluorophore plus Oligonucleotide

Dual labeling involves conjugating both a fluorophore and an oligonucleotide to an antibody or protein. This dual-modality approach enables simultaneous visualization of protein expression and nucleic acid sequences, providing richer biological insights in a single experiment.

Fluorophore Conjugation

Fluorophore conjugation attaches fluorescent molecules to biomolecules such as antibodies, proteins, peptides, or nucleic acids, enabling precise labeling and visualization for fluorescence-based research applications, such as flow cytometry and immunofluorescence microscopy.

Oligonucleotide Conjugation

Oligonucleotide conjugation involves covalently attaching short DNA or RNA sequences to biomolecules such as antibodies, proteins, peptides, or microbeads. This powerful technique bridges molecular biology and proteomics, enabling highly specific detection, amplification, and multiplexed analysis across research and diagnostic applications.

HRP Conjugation

HRP conjugation involves linking horseradish peroxidase, an enzyme, to another molecule, often a biomolecule or a probe. This conjugation is commonly employed in various assays and techniques for detection and visualization purposes, such as IHC, WB, ELISA, and more.

Biotin & Streptavidin Conjugation

Biotin and streptavidin conjugation is one of the most robust and versatile systems used in biomolecular assays. Biotin, a small vitamin-like molecule, can be covalently attached to proteins, antibodies, peptides, or nucleic acids. Streptavidin, a tetrameric protein with exceptionally high affinity for biotin, is then used for detection, amplification, or purification, forming one of the strongest non-covalent interactions in nature.

Particle Bead Conjugation

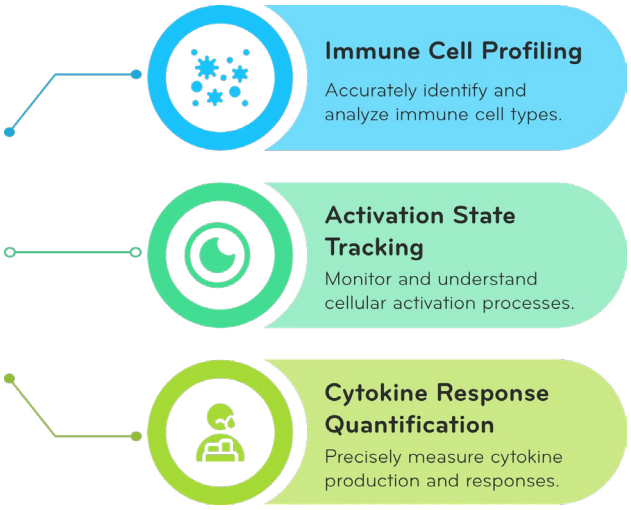
Particle bead conjugation enables the attachment of biomolecules, such as antibodies, proteins, oligonucleotides, or small molecules, to microbeads. These functionalized beads serve as powerful tools for biomarker detection, molecular capture, purification, and multiplexed assay development.

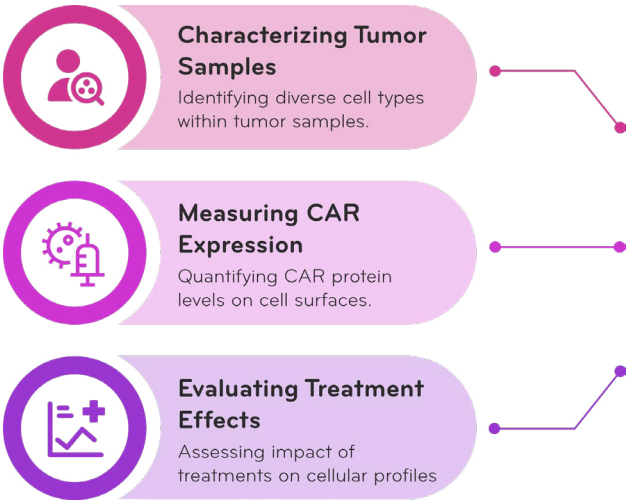
Learn more at: www.innocyto.com/web/services/conjugations.php

Tailored for Cell Analysis Workflows

Immunology

InnoCyto's flow cytometry antibodies and fluorescence-labeled proteins are engineered to deliver high specificity and reproducibility across diverse immunology workflows. Whether profiling immune cell populations, tracking activation states, or quantifying cytokine responses, each reagent is optimized to provide clear, reliable data with minimal background. Researchers can confidently analyze complex immune subsets knowing their tools are built to support precision and consistency.



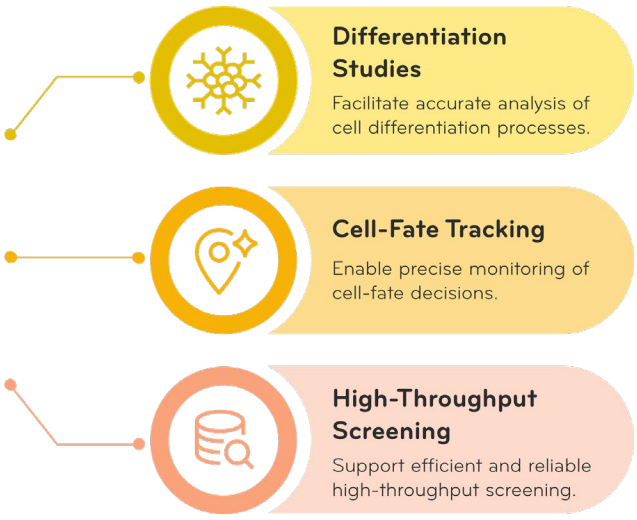


Oncology

In oncology research, InnoCyto's reagents enable sensitive detection of tumor-associated markers, signaling proteins, and cell-surface receptors critical for understanding cancer progression and therapeutic response. Our fluorescence-labeled proteins and antibodies integrate seamlessly into multiparameter flow cytometry panels, allowing scientists to characterize heterogeneous tumor samples, measure CAR expression, and evaluate treatment effects with clarity and accuracy.

Stem Cells & Regenerative Biology

For stem cell and regenerative biology applications, InnoCyto provides validated markers and labeled proteins that support the identification, purification, and monitoring of pluripotent and lineage-specific populations. These reagents are designed to deliver consistent performance across differentiation studies, cell-fate tracking, and high-throughput screening. InnoCyto ensures researchers have dependable tools aligned with the most demanding cell analysis workflows.

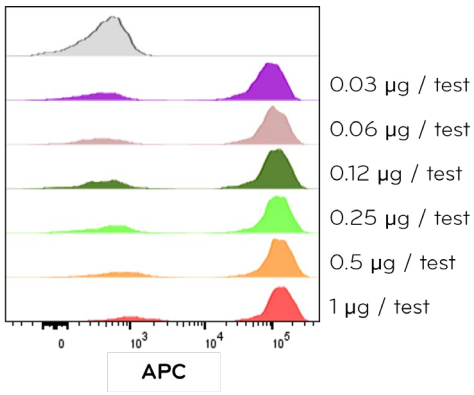


Products

Primary Antibodies

To view product details and order, visit: www.innocyto.com

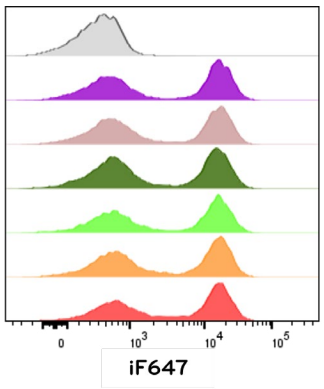
Target Name	Clone	Reactivity	Format
CD2, LFA-2, SRBC-R	OKT11	Human	FITC, Purified, iF488, iF647
CD3	145-2C11	Mouse	FITC, LENP, Purified
CD3	17A2	Mouse	APC, FITC, PE, Purified, iF488, iF647
CD3	KT3	Mouse	APC, Biotin , FITC, PE, Purified, iF488, iF647
CD3, T3, CD3ε	Hit3a	Human	APC, PE, Purified, iF488, iF647, iF700
CD3, T3, CD3ε	OKT3	Human	APC, Biotin, FITC, PB, PE, PE/iF594 , PerCP/Cy5.5, Purified, iF488, iF647
CD3, T3, CD3ε	SK7	Human	APC, FITC, PE, Purified, iF488, iF647
CD3, T3, CD3ε	SP34	Human (Tested), Rhesus, Cynomolgus, Baboon (Reported)	APC, Biotin, FITC, PE, Purified, iF488, iF647
CD3, T3, CD3ε	UCHT1	Human	APC/Cyanine7, Biotin, FITC, PE/Cyanine7, Purified, iF488, iF647, iF700
CD4, T4, Leu3a	004AB	Human	Purified, iF488, iF647
CD4, T4, Leu3a	GK1.5	Mouse	APC, Biotin, FITC, PE, Purified, iF488, iF647
CD4, T4, Leu3a	OKT4-Rec	Human	APC, FITC, Purified, iF488, iF647
CD4, T4, Leu3a	RPA-T4	Human	APC, Biotin, FITC, PE, Purified, iF488, iF647
CD4, T4, Leu3a	SK3	Human	APC, FITC, PE, PE/Cyanine 5.5, Purified, iF488, iF560, iF647
CD8, CD8α, T8	53-6.7	Mouse	APC, Biotin, FITC, PE, Purified, iF488, iF647
CD8, T8, Leu2	OKT8	Human	APC, Biotin, FITC, PE, Purified, iF488, iF560, iF647, iF700
CD8, T8, Leu2	RPA-T8	Human	APC, PE, Purified, iF647
CD8, T8, Leu2	SK1	Human	APC, Biotin, FITC, PE, Purified, iF488, iF647
CD8a, T8, Leu2	008aAB	Human	Purified, iF700
CD9, MRP-1, Tetraspanin-29, DRAP-24	HI9a	Human	PB, iF488
CD11b, ITGAM, integrin αM, CR3	M1/70	Human, Mouse	APC, Biotin, FITC, PE, Purified, iF488, iF647
CD11b, ITGAM, integrin αM, CR3	011bAB	Human	Biotin, Purified, iF647
CD11b, ITGAM, integrin αM, CR3	011bAM1	Human	Purified, iF488, iF647
CD11c, integrin α chain, CR4, ITGAX, p150	N418	Mouse	FITC, Purified
CD14, LPS receptor	63D3	Human	APC, Biotin, PE, Purified
CD14, LPS receptor	M5E2	Human	APC, PE, Purified, iF647
CD15, Lewis X, 3-FAL, 3-FL, LNFP III, SSEA-1	W6D3	Human	Biotin, FITC, Purified, iF488, iF647
CD16, FcγRIII	016AB	Human	Biotin, PB, Purified, iF488, iF647



High Sensitivity Human CD3 Staining

Human peripheral blood lymphocytes stained with APC Anti-human CD3 clone OKT3 at dilutions ranging from 1.0 to 0.03 µg/ml (Cat# 107716, colored histograms) or an isotype control (gray histogram).

Target Name	Clone	Reactivity	Format
CD16, FcγRIII	3G8	Human	APC, PE, Purified, iF488 , iF647
CD16/32	2.4G2	Mouse	APC, FITC, PE, Purified, iF488, iF647
CD19, B4, CVID3, Leu-12, MGC12802	1D3	Mouse	FITC, Purified, iF647
CD19, B4, CVID3, Leu-12, MGC12802	6D5	Mouse	APC, Biotin, FITC, PE, Purified, iF488, iF647
CD19, B4, CVID3, MGC12802	019AM2b	Human	Biotin, Purified, iF647
CD19, B4, CVID3, MGC12802	019BB	Human	FITC, PB, Purified, iF488, iF647
CD19, B4, CVID3, MGC12802	HIB19	Human	APC, FITC, PE, Purified, iF488, iF560, iF647
CD19, B4, CVID3, MGC12802	SJ25C1	Human	APC, Biotin, FITC, PB, PE, Purified, iF488, iF647
CD20, MS4A-1	2H7	Human	APC, Biotin, FITC, PE, Purified, iF488, iF647
CD20, MS4A-1	020AR1	Human	Purified, iF488, iF647
CD21, C3dR, CR2, EBV receptor	THB5	Human	APC, Biotin, FITC, PE, Purified, iF488, iF647
CD22, BL-CAM, Siglec-2	HIB22	Human	FITC, Purified, iF488, iF647
CD25, IL-2Rα chain, Low affinity IL-2R	BC96	Human	APC, PE, Purified, iF647
CD25, IL-2Rα chain, Low affinity IL-2R	M-A251	Human	APC, FITC, PE, Purified, iF488, iF647
CD27, TNFRSF7, S152, T14	027AM1	Human	FITC, Purified, iF647
CD27, TNFRSF7, S152, T14	O323	Human	FITC, Purified, iF647
CD28, Tp44	028AB	Human	Biotin, FITC, iF488, iF647, PB, Purified
CD28, Tp44	CD28.2	Human	APC, FITC, PE, Purified, iF488, iF647
CD29, Integrin β chain, VLA-β chain, gpIIa, ITGB1	K20	Human	APC, Biotin, FITC, PB, Purified, iF488, iF647
CD32, FcγRII, FCRII	IV.3	Human	FITC, PE, Purified, iF488, iF647
CD34, Gp105-120, My10	034AB	Human	FITC, Purified, iF647
CD38, gp45, ADP-ribosyl cyclase	HB-7	Human	APC, PE, Purified, iF488, iF647
CD38, gp45, ADP-ribosyl cyclase	HIT2	Human	APC, FITC, PE, Purified, iF488, iF647
CD44, Epican, ECMR-III, PGP-1	IM7	Human, Mouse	APC, Purified, iF647
CD45, LCA, T200	HI30	Human	APC, Biotin, FITC, PE, PE/Cyanine 5.5, PE/iF594 , Purified, iF405, iF488, iF647
CD45, Ly-5, LCA, T200	045AB	Human	FITC, PB, Purified, iF488, iF560, iF647
CD45, Ly-5, LCA, T200	2D1	Human	APC, Biotin, FITC, PE, Purified, iF488, iF647
CD45, Ly-5, LCA, T200	30-F11	Human, Mouse	APC, FITC, Purified, iF647
CD45R, B220	RA3-6B2	Human, Mouse	Biotin, FITC, PE, PE/Cyanine7, Purified, iF488, iF647
CD45RA, GP180, LY5, LCA, PTPRC	HI100	Human	APC, Biotin, FITC, PE, Purified, iF647
CD49b, Integrin α2 chain, ITGA2	DX5	Mouse	APC, PE, Purified, iF647
CD49b, Integrin α2 chain, ITGA2	DX5_R	Mouse	Purified, iF647
CD53, OX44	HI29	Human	APC, FITC, PE, Purified, iF488, iF647

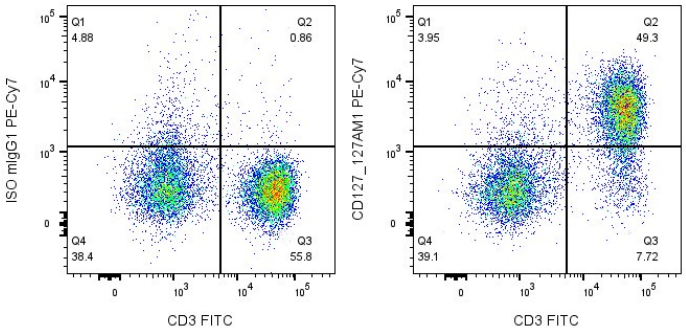


High Sensitivity Mouse CD19 Staining

Mouse Splenocytes stained with iF647 Anti-mouse CD19 clone 1D3 at dilutions ranging from 1.0 to 0.03 µg/ml (Cat# 201904, colored histograms) or an isotype control (gray histogram).

Primary Antibodies (continued)

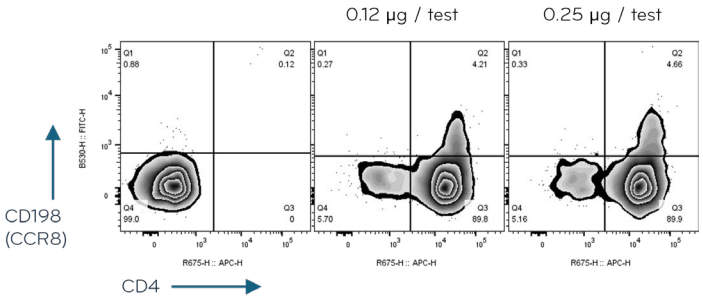
Target Name	Clone	Reactivity	Format
CD56, Leu-19, NKH1	056EM1	Human	APC, FITC, PE, Purified, iF488, iF647
CD56, Leu-19, NKH1	CD56H	Human	Purified
CD57, HNK-1, Leu-7, NK-1	HNK-1	Human	FITC, Purified, iF647
CD59, Protectin, MIRL, H19, MACIF	p282 (H19)	Human	Purified, iF647
CD62L, LAM-1, L-selectin, Ly-22	MEL-14	Mouse	PE, Purified, iF488
CD63, LIMP, LAMP-3, ME491, gp55	063AB	Human	Purified
CD63, LIMP, LAMP-3, ME491, gp55	H5C6	Human	APC, PE, Purified, iF488, iF647
CD63, LIMP, LAMP-3, ME491, gp55	IC3	Human	Purified, iF488
CD64, FCGR1A, FCG1, FCGR1, IGFR1	H22	Human	APC, FITC, PE, Purified, iF488, iF647
CD69, VEA	FN50	Human	PE, PE/Cyanine7, Purified, iF647
CD81, S5.7, CVID6, TSPAN28	081AM2b	Human	Purified
CD81, S5.7, CVID6, TSPAN28	5A6	Human	APC, Biotin, FITC, PB, PE, Purified, iF405, iF488, iF647
CD95, Fas, TNFRSF6, Apo-1	DX2	Human	APC, FITC, PE, Purified, iF488, iF647
CD127, IL-7 receptor α chain, IL-7Rα	127AB	Human	PB, Purified, iF488, iF647
CD127, IL-7 receptor α chain, IL-7Rα	127AM1	Human	APC, PE, PE/Cyanine7, Purified, iF488, iF560, iF647
CD137, 4-1BB, ILA, TNFRSF9	4B4-1	Human	Purified, iF647
CD150, SLAM, IPO-3	TC15-12F12.2	Mouse	Purified, iF488
CD173a, P84, SHPS-1, PTPNS1	P84	Mouse	Purified, iF647
CD184, CXCR4	184AM1	Human	Purified
CD197, CCR7, BLR2, EBI1, CMKBR7	197AM2a	Human	APC, Biotin, FITC, PE, Purified, iF488, iF647
CD197, CCR7, BLR2, EBI1, CMKBR7	197AR2a	Human	Purified, iF647
CD198, CCR8, CC-CKR-8, Ter1	m198AR2b	Mouse	Biotin, FITC, Purified, iF488, iF647
CD274, PD-L1, B7-H1	10F.9G2	Mouse	APC, Biotin, FITC, PE, Purified, iF647
CD279, PD1, PD-1	279AM1	Human	Purified, iF560, iF647
CD279, PD1, PD-1	EH12.2H7	Human	Purified, iF647
CD298, ATPB-3, Na, K-ATPase beta-3 polypeptide	LNH-94	Human	APC, Biotin, FITC, PE, iF488, iF647
DYKDDDDK Tag	1002AH1	DYKDDDDK tag, All Species Expected	Purified, iF647
DYKDDDDK Tag	BR20M05	DYKDDDDK tag, All Species Expected	Purified, iF488
EMR1, Ly71	BM8	Mouse	PE, Purified, iF488, iF647
FcεRIα, High affinity IgE receptor, FcεRI alpha	AER-37	Human	APC, Purified, iF488, iF647
H-2, MHC H-2	M1/42	Mouse	APC, Biotin, FITC, PE, Purified, iF488, iF647
HLA-ABC, MHC class I	W6/32	Human	APC, Biotin, FITC, PB, PE, Purified, iF488, iF647
HLA-DR, MHC class II	1003AB	Human	Purified
HLA-DR, MHC class II	L243	Human	APC, Biotin, FITC, PB, PE, Purified, iF488, iF647



Clear Distinctions for Human CD127 Positive and Negative Populations

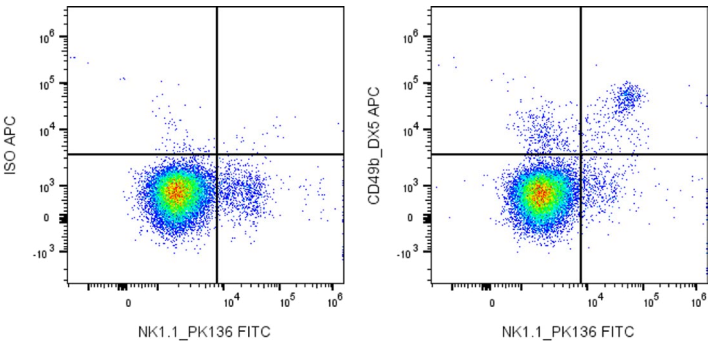
Human peripheral blood lymphocytes stained with FITC Anti-human CD3 and either PE/Cyanine7 Anti-Human CD127 clone 127AM1 (Cat# 104912, right panel) or an isotype control (left panel).

Target Name	Clone	Reactivity	Format
His Tag, histidine-tag	1005AB	His-tag, All Species Expected	Purified, iF647
His Tag, histidine-tag	BR20M03	His-tag, All Species Expected	Biotin, HRP, Purified
IFN-γ, IFN-gamma, Interferon-γ	4S.B3	Human	FITC, PE, Purified, iF488, iF647
IL-4, Interleukin-4, MCGF-2	MP4-25D2	Human	Purified, iF647
Ki-67	K67AR2b	Human, Mouse	APC, PE, Purified, iF488, iF647
Ly-6A/E, Sca-1	D7	Mouse	Purified, iF488, iF647
Ly-6G, Gr-1	1A8	Mouse	APC, Biotin, FITC, PE, Purified, iF488, iF647
Myc tag, Myc epitope	1004AM2b	Myc tag, All Species Expected	Purified, iF647
Myc tag, Myc epitope	9E10	Myc tag, All Species Expected	Biotin, Purified, iF647
TCR Vβ13.1	H131	Human	APC, FITC, PE, Purified, iF488, iF647
TCR Vβ5.2/5.3	MH3-2	Human	PE, Purified, iF647
TCR β chain, TCR-β	H57-597-M2a	Mouse	APC, FITC, PE, Purified, iF488, iF647
TCR β chain, TCR-β	H57-597-R1	Mouse	APC, PE, Purified, iF488
TCRβV3.1	JOVI-3	Human	Purified, iF488, iF647
Ter119, Ly-76	Ter-119	Mouse	APC, Purified



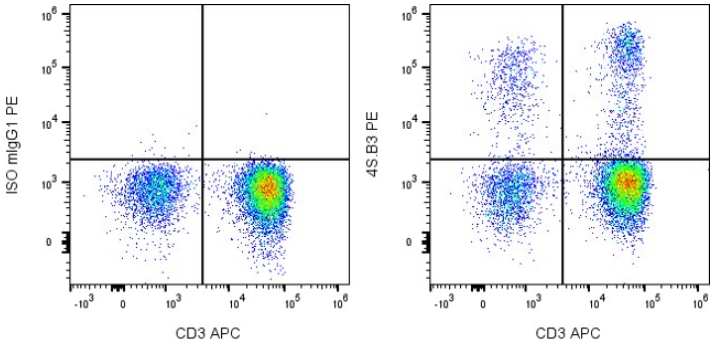
FITC Anti-Mouse CD198 (CCR8), clone m198AR2b

Mouse splenocytes stained with APC Anti-Mouse CD4 and either FITC Anti-Mouse CD198 clone m198AR2b (Cat# 200805, middle and right panels) or isotype controls (left panel).



FITC Anti-Mouse CD49b, clone DX5

Mouse splenocytes were stained with FITC Anti-Mouse NK1.1 clone PK136 and either APC Anti-Mouse CD49b clone DX5 (Cat# 202606, right panel) or an isotype control (left panel).



PE Anti-Human IFNγ, clone 4S.B3

PMA/Ionomycin-stimulated human peripheral blood lymphocytes stained with APC Anti-human CD3 and either PE Anti-Human IFNγ clone 4S.B3 (Cat# 110608, right panel) or an isotype control (left panel).

Secondary Antibodies

Catalog	Product Name	Target Name	Clone
305001	Biotin Donkey Anti-Human IgG Fcγ	Human IgG Fcγ	Poly001
305101	HRP Donkey Anti-Human IgG Fcγ	Human IgG Fcγ	Poly001
305201	HRP Donkey Anti-Goat IgG	Goat IgG	Poly002
305301	HRP Goat anti-Rat IgG	Rat IgG	Poly003
305401	Biotin Goat anti-Human IgA	Human IgA	Poly004
305501	HRP Goat anti-Human IgA	Human IgA	Poly004
305601	Biotin donkey Anti-human IgM	Human IgM	Poly005
305701	HRP donkey Anti-human IgM	Human IgM	Poly005
305801	HRP Goat anti-mouse IgG	mouse IgG	Poly006
305901	HRP Donkey Anti-Rabbit IgG	Rabbit IgG	Poly007
306001	HRP Streptavidin	Streptavidin	

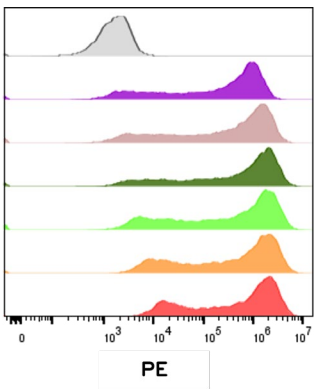
Isotype Controls

Clone	Isotype	Format
HTK888	Armenian Hamster IgG	FITC, Purified
MOPC-173-Hamster	Armenian Hamster IgG	FITC, LENP, Purified, iF488, iF647
1016AH1	Human IgG1	APC, Biotin, FITC, PE, Purified, iF488, iF647
1016AH2	Human IgG2	Purified
1016AH4	Human IgG4	APC, Biotin, FITC, PE, Purified, iF488, iF647
1016AH4M1	Human IgG4	Purified
1016AH4M2	Human IgG4	Purified
MOPC-21	Mouse IgG1	APC, APC/Cy7, Biotin, FITC, LENP, PB, PE, PE/Cyanine5.5, PE/Cyanine7, PE/iF594, Purified, iF405, iF488, iF560, iF647, iF700
MOPC-173	Mouse IgG2a	APC, Biotin, FITC, PB, PE, PE/iF594, Purified, iF488, iF647
MOPC-173-SH	Mouse IgG2a	APC, PE, Purified, iF647
MOPC-21-2a	Mouse IgG2a	FITC, LENP, Purified, iF647
MOPC-21-2b	Mouse IgG2b	APC, Biotin, FITC, LENP, PE, Purified, iF488, iF560, iF647, iF700
MPC-11	Mouse IgG2b	Purified, iF488
MM-30	Mouse IgM	APC, Biotin, FITC, PE, Purified, iF647
MOPC-21-B1	Rabbit IgG, κ1	Purified
MOPC-173-B2	Rabbit IgG, κ2	FITC, PB, Purified, iF488, iF700
MOPC-173-B2-SH	Rabbit IgG, κ2	PB, Purified, iF488, iF647
MOPC-21-B2	Rabbit IgG, κ2	Biotin, FITC, PB, Purified, iF488, iF647
RTK2071	Rat IgG1	APC, FITC, PE, Purified, iF488, iF647
MOPC-21-R1	Rat IgG1, kappa	FITC, Purified, iF488, iF647
RTK2758	Rat IgG2a	APC, Biotin, FITC, PE, PE/Cyanine7, Purified, iF488, iF647
MOPC-21-R2a	Rat IgG2a, kappa	PB, Purified
RTK4530	Rat IgG2b	APC, Biotin, FITC, PE, Purified, iF488, iF647
MOPC-21-R2b	Rat IgG2b, kappa	Purified, iF647
MOPC-21-R2b-SH	Rat IgG2b, kappa	Purified
RTK2118	Rat IgM	APC, PE, Purified, iF647
MOPC-173-SHamster	Syrian Hamster IgG	Purified

Biosimilar Antibodies

Product Name	Clone
CTLA-4 Fc Fusion Protein (Abatacept Biosimilar)	Abatacept
Anti-Human GP IIb/IIIa (Abciximab Biosimilar)	Abciximab
Anti-Human TNFα (Adalimumab Biosimilar)	Adalimumab
Anti-Human VEGF (Aflibercept Biosimilar)	Aflibercept
Anti-Human CD52 (Alemtuzumab Biosimilar)	Alemtuzumab
Anti-Human PD-L1 (Atezolizumab Biosimilar)	Atezolizumab
Anti-Human PD-L1 (Avelumab Biosimilar)	Avelumab
CTLA-4 Fc Fusion Protein (Belatacept Biosimilar)	Belatacept
Anti-Human VEGF (Bevacizumab Biosimilar)	Bevacizumab
Anti-Human IL-12 / IL-23 (Briakinumab Biosimilar)	Briakinumab
Anti-Human VEGF-A (Brolucizumab Biosimilar)	Brolucizumab
Anti-Human PD-1 (Camrelizumab Biosimilar)	Camrelizumab
Anti-Human PD-1 (Cemiplimab Biosimilar)	Cemiplimab
Anti-Human EGFR (Cetuximab Biosimilar)	Cetuximab
Anti-Human CD4 (Clenoliximab Biosimilar)	Clenoliximab
Anti-Human PTK7 (Cofetuzumab Biosimilar)	Cofetuzumab
Anti-Human CD25 (Daclizumab Biosimilar)	Daclizumab
Anti-Human CD38 (Daratumumab Biosimilar)	Daratumumab
Anti-Human RANKL (Denosumab Biosimilar)	Denosumab
Anti-Human TRAIL (Drozitumab Biosimilar)	Drozitumab
Anti-Human IL-4Rα (CD124) (Dupilumab Biosimilar)	Dupilumab
Anti-Human PD-L1 (Durvalumab Biosimilar)	Durvalumab
Anti-Human C5 (Eculizumab Biosimilar)	Eculizumab
Anti-Human CD11a (Efalizumab Biosimilar)	Efalizumab
Anti-Human PD-L1 (Envafolimab Biosimilar)	Envafolimab
Anti-Human CD22 (Epratuzumab Biosimilar)	Epratuzumab
TNFR-2/Fc Fusion Protein (Etanercept Biosimilar)	Etanercept
Anti-Human PCSK9 (Evolocumab Biosimilar)	Evolocumab
Felvizumab Biosimilar, RSV Monoclonal Antibody	Felvizumab
Anti-Human CD80 (Galiximab Biosimilar)	Galiximab
Anti-Human CD33 (Gemtuzumab Biosimilar)	Gemtuzumab
Anti-Human B7-H3 (Ifinatamab Biosimilar)	Ifinatamab
Anti-Human TNF alpha (Infliximab Biosimilar)	Infliximab
Anti-Human CTLA-4 (Ipilimumab Biosimilar)	Ipilimumab

Product Name	Clone
Anti-Human CD 38 (Isatuximab Biosimilar)	Isatuximab
Anti-Human EGFR (Matuzumab Biosimilar)	Matuzumab
Anti-Human TAG-72 (Minretumomab Biosimilar)	Minretumomab
Anti-Human CCR4 (Mogamulizumab Biosimilar)	Mogamulizumab
Anti-Human CD3 (Muromonab Biosimilar)	Muromonab
Anti-Human integrin α4β1 (VLA-4)	Natalizumab
Anti-Human EGFR (Nimotuzumab Biosimilar)	Nimotuzumab
Anti-Human PD-1 (Nivolumab Biosimilar)	Nivolumab
Anti-Human CD20 (Obinutuzumab Biosimilar)	Obinutuzumab
Anti-Human IgE (Omalizumab Biosimilar)	Omalizumab
Anti-Human RSV (Palivizumab Biosimilar)	Palivizumab
Anti-Human EGFR (Panitumumab Biosimilar)	Panitumumab
Anti-Human PD-1 (Pembrolizumab Biosimilar)	Pembrolizumab
Anti-Human HER2 (Pertuzumab Biosimilar)	Pertuzumab
Anti-Human CD79B (Polatuzumab Biosimilar)	Polatuzumab
Anti-Human VEGFR-2 (Ramucirumab Biosimilar)	Ramucirumab
Anti-Human VEGF (Fab) (Ranibizumab Biosimilar)	Ranibizumab
Anti-Human LAG-3 (Relatlimab Biosimilar)	Relatlimab
Anti-Human CD20 (Rituximab Biosimilar)	Rituximab
Anti-Human DLL3 (Rovalpituzumab Biosimilar)	Rovalpituzumab
Anti-Human TROP-2 (Sacituzumab Biosimilar)	Sacituzumab
Anti-Human IL-17A (Secukinumab Biosimilar)	Secukinumab
Human GLP-1 Receptor Agonist (Semaglutide Biosimilar)	Semaglutide
Anti-Human PD-1 (Spartalizumab Biosimilar)	Spartalizumab
Anti-Human NGF (Tanezumab Biosimilar)	Tanezumab
Anti-Human IL-6R (Tocilizumab Biosimilar)	Tocilizumab
Anti-Human HER2 (Trastuzumab Biosimilar)	Trastuzumab
Trastuzumab Biosimilar, L234A L235A P329G (LALAPG) Fc Silent Mutant	Trastuzumab
Trastuzumab Biosimilar, N297A Mutant	Trastuzumab
Anti-Human CTLA-4 (Tremelimumab Biosimilar)	Tremelimumab
Anti-Human CEACAM5 (Tusamitamab Biosimilar)	Tusamitamab
Anti-Human IL-12 / IL-23 (Ustekinumab Biosimilar)	Ustekinumab
Anti-Human Claudin 18.2 (Zolbetuximab Biosimilar)	Zolbetuximab



PE Anti-Human CD25 Staining

Anti-human CD3 and anti-CD28 stimulated human peripheral blood lymphocytes was stained with PE Anti-Human CD25 clone M-A251 (Cat# 107508, colored histograms) or an isotype control (gray histogram).

In Vivo Star™ Recombinant Antibodies

Power your *in vivo* studies with antibodies engineered for reliability, consistency, and biological impact.

InnoCyto's **In Vivo Star™ Antibodies** are purpose-built for functional animal studies, enabling confident modulation of immune pathways, cell depletion, checkpoint targeting, and receptor signaling. Each antibody is produced and validated with stringent quality controls to support reproducible experimental outcomes in demanding *in vivo* or *in vitro* environments.

- **Ultra-low endotoxin levels (<1 EU per 1 mg of the protein)**
- **High purity formulations (>95% purity)**
- **Preservative and stabilizer-free**
- **Recombinant manufacturing free of mouse hybridomas**
- Available in **bulk** or as **custom engineered** products
- **Established clones** with known suitability across multiple applications, including functional assays, flow cytometry, and ELISA

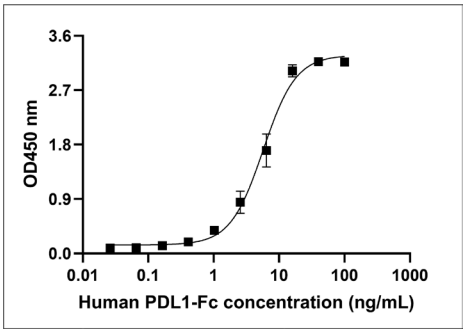
Target Antigen	Antibody Clones
Mouse CD3	17A2, 17A2-m2a, 17A2-m2b
Mouse CD3e	145-2C11-m2a, 500A2, KT3
Mouse CD4	GK1.5, GK1.5-m2b, GK1.5-m2a
Mouse CD8a	YTS 169.4-m2a, YTS 169.4, 2.43-m2a, 2.43, YTS 105.18
Mouse CD8b	YTS 156.7
Mouse CD11c	N418-mg1, N418
Mouse CD16/CD32	2.4G2-hg1, 2.4G2-m2a, 2.4G2-m2aSL, 2.4G2-mFab, 2.4G2, 2.4G2-hg1SL
Mouse CD19	1D3
Mouse CD20	18B12
Mouse CD25	PC61.5.3-m2c, PC61.5.3
Mouse CD28	PV-1-m2a, PV-1, 37.51-mg1, 37.51
Mouse CD40	FGK4.5, FGK4.5-m2a
Mouse CD40L (CD154)	MR1-mg1, MR1
Mouse CD62L (L-Selectin)	MEL-14
Mouse CD79b	HM79b-m2a, HM79b
Mouse CD115	AFS98
Mouse CD137 (4-1BB)	3H3, LOB12.3
Mouse CD370	10B4
Mouse CTLA-4	9D9, 9D9-m2aSL
Mouse GITR	DTA-1-m2a, DTA-1-m2aSL, DTA-1
Mouse Ly6G/Ly6C (Gr-1)	RB6-8C5
Mouse NK1.1	PK136
Mouse OX40	OX86-m2a, OX86-m2aSL, OX86
Mouse PD-1	RMP1-14.1-m2a, RMP1-14.1-m2aSL, RMP1-14.1, 29F.1A12.1-m1, 29F.1A12.1-m1DA, 29F.1A12.1-m2a, 29F.1A12.1-m2aSL, 29F.1A12.1
Mouse PD-1 / VEGF-A (bispecific)	RMP1-14.1 / B20-4.1.1.1, 29F.1A12.1 / B20-4.1.1.1, RMP1-14.1 / G6-23, 29F.1A12.1 / G6-23, RMP1-14.1 / G6-31, 29F.1A12.1 / G6-31

Target Antigen	Antibody Clones
Mouse PD-1 / VEGFR-2 (bispecific)	RMP1-14.1 / DC101, 29F.1A12.1 / DC101
Mouse PD-L1	10F.9G2.1-m2aSL, 10F.9G2.1
Mouse PD-L1 / VEGF-A (bispecific)	10F.9G2.1 / B20-4.1.1.1, 10F.9G2.1 / G6-23, 10F.9G2.1 / G6-31
Mouse PD-L1 / VEGFR-2 (bispecific)	10F.9G2.1 / DC101
Mouse PLVAP/PV-1	MECA-32
Mouse TCR beta	H57-597-m2a
Mouse TIGIT	1F4, 10A7
Mouse VEGF	B20-4.1.1.1, G6-23, G6-31
Human CD3	SP34-2, OKT3 / UCHT1, OKT3 / SP34-2, SP34-2 / OKT3
Human CD3e	UCHT1, UCHT1-hg1, OKT3, 12F6
Human CD4	OKT4, 13B8.2, SK3
Human CD8a	OKT8
Human CD16	3G8, 3G8-hg1SL
Human CD19	FMC63, SJ25C1, B43, 4G7
Human CD20	2H7, B9E9
Human CD28	15E8, 9.3, CD28.3, CD28.2
Human CD32	IV.3, IV.3-hg1SL
Human CD47	B6H12
Human CD56	N901
Human CD64	H22, H22-hg1SL
Human HER2/ErbB-2/c-neu	4D5-mg1
Human HLA Class I Heavy Chain	HC10
Human HLA class II DR/DQ	9.3F10
Human HLA-ABC	W6/32
Human HLA-DR	L243
Human HLA-DR/DP/DQ	F3.3
Human Siglec-2/CD22	NCI m971

Recombinant Proteins

Protein Name	Species	Format
ACE2, Angiotensin I converting Enzyme 2	Human	Biotinylated, HRP conjugated, Purified
Annexin A5	Human	APC, Biotinylated, FITC, PB, PE, Purified, iFluor 488, iFluor 647
B7-H5, SISP1, Gi24, VISTA	Human	APC, Biotinylated, PE, Purified
BirA ligase	Escherichia coli	Purified
CD3-epsilon, FLJ18683, T3E, TCRE, CD3E	Human	APC, Biotinylated, PE, Purified
CD4, CD4mut, LEU3	Human	APC, Biotinylated, PE, Purified
CD7, GP40, TP41, LEU-9, Tp40	Human	APC, Biotinylated, PE, Purified
CD8A, CD8, Leu2, MAL, p32	Human	APC, Biotinylated, PE, Purified
CD16A, FCGR3A, FCG3, FCGR3, IGFR3	Human	Biotinylated, Purified, APC, Biotinylated, PE, Purified
CD19, B4, CVID3	Human	APC, Biotinylated, PE, Purified
CD20, B1, Bp35, MS4A1	Human	APC, PE
CD22, SIGLEC2, BL-CAM	Human	APC, Biotinylated, PE, Purified
CD25, IL2RA, p55	Human	APC, Biotinylated, PE, Purified
CD25, IL2RA, p55	Cynomolgus monkey	APC, Biotinylated, PE, Purified
CD30, TNFRSF8, Ki-1	Human	APC, Biotinylated, PE, Purified
CD32a, FCGR2A, FCG2 , FCGR2A1, IGFR2	Human	APC, Biotinylated, PE, Purified
CD32b/c, FCGR2B, C, Fc-RII-b, c, FCG2, IGFR2	Human	APC, Biotinylated, PE, Purified
CD33, SIGLEC3, gp67	Human	APC, Biotinylated, PE, Purified
CD38, T10, cADPr 1	Human	APC, Biotinylated, PE, Purified
CD64, FCGR1A, FCG1, FCGR1, IGFR1	Human	APC, Biotinylated, PE, Purified
CD73, NT5E	Human	APC, Biotinylated, PE, Purified
CD80, B7-1, B7, BB1	Human	APC, Biotinylated, PE, Purified
CD86, B7-2, B70, CD28LG2	Human	APC, Biotinylated, PE, Purified
CD134, TNFRSF4, OX40, OX40L receptor	Cynomolgus monkey	APC, Biotinylated, PE, Purified
CD134, TNFRSF4, OX40, OX40L receptor	Human	APC, Biotinylated, PE, Purified
CD134, TNFRSF4, OX40, OX40L receptor	Mouse	APC, Biotinylated, PE, Purified
CD137, TNFRSF9, 4-1BB	Human	APC, Biotinylated, PE, Purified

Protein Name	Species	Format
CD137L, TNFSF9, 4-1BB Ligand	Human	Purified
CD152, CTLA4	Human	APC, Biotinylated, PE, Purified
CD171, L1CAM	Human	APC, Biotinylated, PE, Purified
CD200, MOX1, MOX2, MRC, OX-2, My033	Cynomolgus monkey	Purified
CD200, MOX1, MOX2, MRC, OX-2, My033	Human	APC, Biotinylated, PE, Purified
CD200, MOX1, MOX2, MRC, OX-2, My033	Mouse	APC, Biotinylated, PE, Purified
CD200R, CRTR2, MOX2R, OX2R	Human	APC, Biotinylated, PE, Purified
CD200R, CRTR2, MOX2R, OX2R	Mouse	APC, Biotinylated, PE, Purified
CD213A2, IL13RA2, IL-13R, IL13BP	Human	APC, Biotinylated, PE, Purified
CD252, OX40L, TNFSF4, TXGP1, CD134 ligand	Cynomolgus monkey	Purified
CD252, OX40L, TNFSF4, TXGP1, CD134 ligand	Human	Purified
CD252, OX40L, TNFSF4, TXGP1, CD134 ligand	Mouse	Purified
CD269, TNFRSF17, BCMA	Human	APC, Biotinylated, PE, Purified
CD273, PDL2, Butyrophilin B7-DC	Human	APC, Biotinylated, PE, Purified
CD274, PD-L1, B7-H1, PDC-D1L1, PDCD1LG1	Rhesus monkey	Purified
CD274, PD-L1, B7-H1, PDC-D1L1, PDCD1LG1	Human	APC, Biotinylated, PE, Purified
CD279, PD1, PDCD1, SLEB2	Human	APC, Biotinylated, PE, Purified
CD326, EPCAM, TROP1, TACSTD1	Human	APC, Biotinylated, PE, Purified
CD340, HER2, HER-2, ERBB2, MLN19, NEU	Human	APC, Biotinylated, PE, Purified
CD357, TNFRSF18, AITR, GITR	Human	APC, Biotinylated, PE, Purified
EphA2	Human	APC, Biotinylated, PE, Purified
FOLR-1, FBP, FOLR, FRα	Human	APC, Biotinylated, PE, Purified
FcRn, FCGRT & B2M	Human	Biotinylated, Purified
GM2A, Ganglioside GM2 activator	Human	Purified



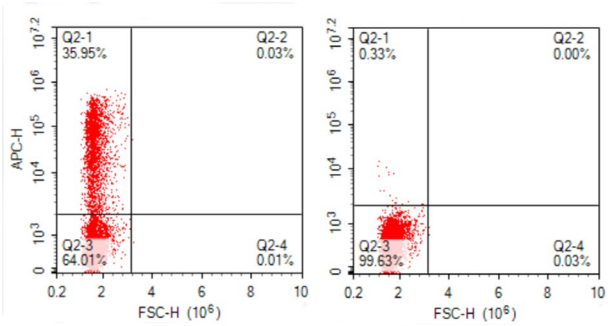
Functional ELISA Test of PD-L1 binding with Biotinylated PD-1

Functional ELISA assay: Streptavidin is immobilized at 2 μg/mL, 100 μL/well. Followed by biotinylated Human PD1 (C-His-Avi, Cat# 802804) at 0.5 μg/mL and a serial dilution of recombinant Human PD-L1 (C-Fc-Avi, Cat# 801002). HRP Anti-hIgG1 secondary antibody (1:5000) is used as a detection reagent. The results showed 50% of the optimal binding response is approximately 3.4 ng/mL.

Recombinant Proteins (continued)

Protein Name	Species	Format
GPC3, GTR2-2, MXR7, SDYS, OCI5	Human	APC, Biotinylated, PE, Purified
Multi-tagged GST protein (Myc-Avi-V5-DYKDDDDK-HA-His)	Schistosoma japonicum	Purified
Galectin-3, LGALS3, MAC2, Gal-3, Mac-2 antigen	Cynomolgus monkey	Purified
Galectin-3, LGALS3, MAC2, Gal-3, Mac-2 antigen	Human	Purified
Galectin-3, LGALS3, MAC2, Gal-3, Mac-2 antigen	Mouse	Purified
Hexosaminidase A	Human	Purified
Hexosaminidase A, Hexosaminidase B	Human	Biotinylated, Purified
Hexosaminidase B	Human	Purified
Human IgG1-Fc protein	Human	Purified
Human IgG1-Fc with multiple tags (hIgG1-Fc-Myc-Avi-V5-DYKDDDDK-HA-His)	Human	Purified
Human IgM-Fc protein	Human	Purified
Mesothelin, MPF, MSLN	Human	APC, Biotinylated, PE, Purified
Notum, Palmitoleoyl-protein carboxylesterase	Cynomolgus monkey	Purified

Protein Name	Species	Format
Notum, Palmitoleoyl-protein carboxylesterase	Human	Purified
PPT1, Palmitoyl-protein thioesterase 1	Human	Purified
Pro-aerolysin, FLAER, AER	Aeromonas hydrophila	iFluor 488
SARS-CoV2 RBD, Spike RBD Protein, RBD Protein	SARS-CoV-2	Biotinylated, Purified
SARS-CoV2 Spike Protein Trimer, Spike trimer	SARS-CoV-2	Purified
SARS-CoV2 Spike S1 Protein, S1 Protein	SARS-CoV-2	Biotinylated, Purified
SECTM1, K12	Human	APC, Biotinylated, PE, Purified
SUMF1, Formylglycine-generating enzyme	Human	Purified
SURF1, Surfeit locus protein 1	Human	Purified
TIM3, HAVCR2, TIMD3, FLJ14428, KIM3	Human	Biotinylated, Purified
TNFSF15, TL1A, VEGI	Human	Purified
TNFSF18, GITR Ligand, AITRL, TL6, GITRL	Human	Biotinylated, Purified
TROP2, TACSTD2, GA733-1, M1S1	Human	APC, Biotinylated, PE, Purified



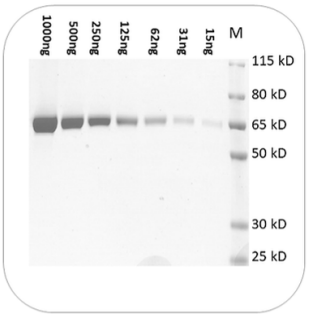
Detection of Functional Anti-PD-L1 CAR

PD-L1 CAR-transfected CHO cells (left) or mock transfected cells (right) were stained with 5 µL APC-PD-L1-Fc protein (Cat# 800804).

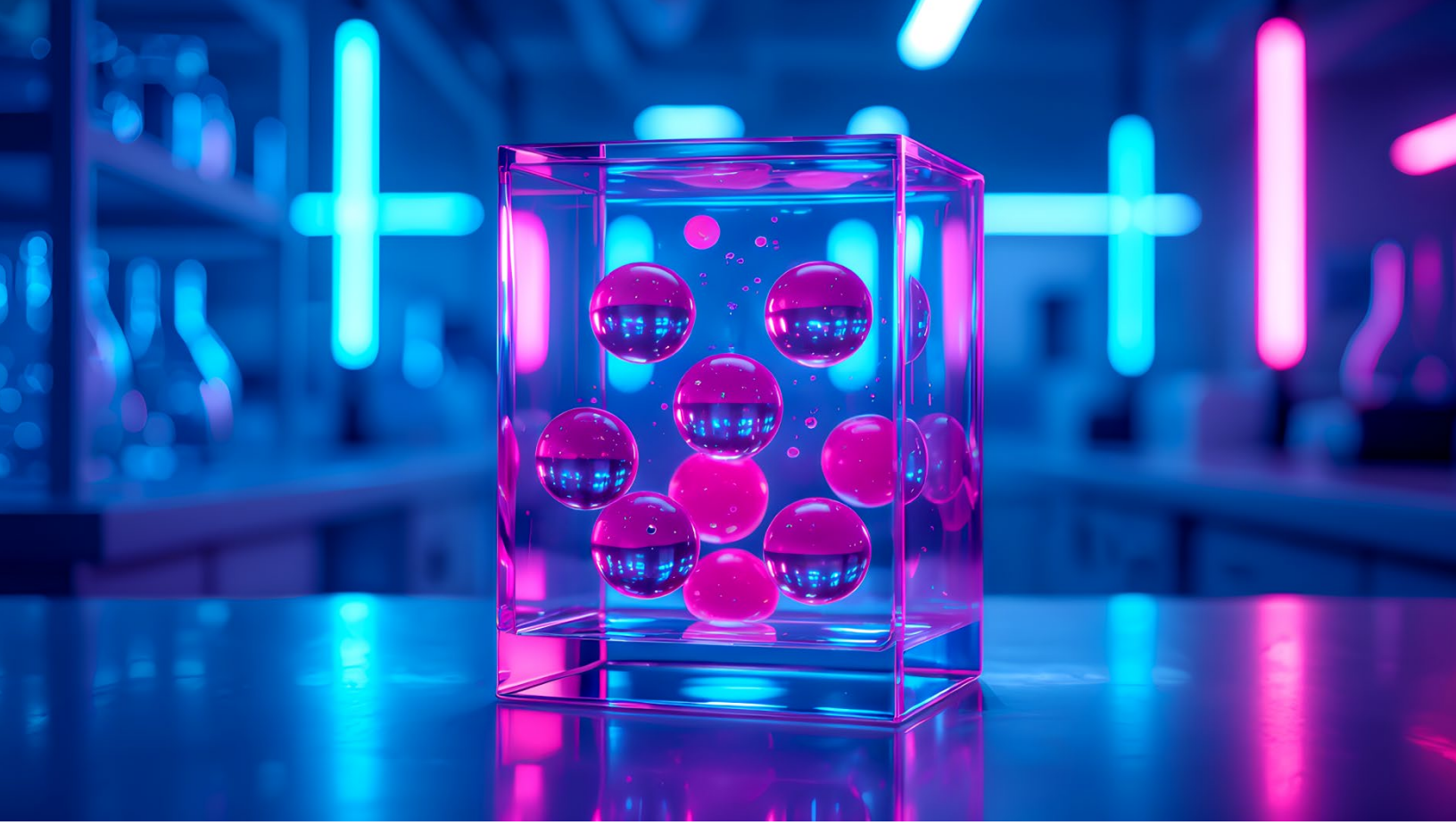
Ancillary Reagents

Catalog	Product Name	Size
700101	BlinkBlue SDS-PAGE Staining Buffer	50mL
700102	BlinkBlue SDS-PAGE Staining Buffer	1L
700201	Protein A resin	1mL
700202	Protein A resin	10mL
700203	Protein A resin	50mL
700204	Protein A resin	200mL
700301	Nickel resin	10mL
700302	Nickel resin	50mL
700401	IC-Link HRP Conjugation Kit	0.2mg
700402	IC-Link HRP Conjugation Kit	1mg

BlinkBlue Protein Stain: Superior Sensitivity



Recombinant protein was stained with BlinkBlue SDS-PAGE Staining Buffer for 60 minutes, followed by destaining with deionized water. Blinkblue can detect protein at 15 ng level on the mini-gel.



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