

APC/Cyanine7 anti-mouse CD14 Antibody

Catalog# / Size	123317 / 25 µg 123318 / 100 µg
Clone	Sa14-2
Regulatory Status	RUO
Other Names	LPS receptor
Isotype	Rat IgG2a, κ
Description	CD14 is a 53-55 kD glycosylphosphatidylinositol (GPI)-linked membrane glycoprotein also known as LPS receptor. CD14 is expressed on macrophages, dendritic cells, Kupffer cells, hepatocytes, and granulocytes. As a high-affinity receptor for LPS-LBP (LPS-binding protein) complex, CD14, in association with Toll-like Receptor 4 (TLR4) or 2 (TLR2), is involved in the clearance of gram-negative pathogens.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse thymus or spleen
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Additional Product Notes	BioLegend is in the process of converting the name APC/Cy7 to APC/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our APC/Cyanine7 products. Please contact Technical Service if you have any questions.
RRID	AB_10900813 (BioLegend Cat. No. 123317) AB_10897102 (BioLegend Cat. No. 123318)

Antigen Details

Structure	GPI-linked membrane glycoprotein, 53-55 kD
Distribution	macrophages, dendritic cells, kupffer cells, hepatocytes
Function	LPS receptor, clearance of Gram-negative pathogens
Ligand/Receptor	LPS

Cell Type	Dendritic cells, Macrophages
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Stocks S, <i>et al.</i> 1990. <i>Biochem. J.</i> 268:275. 2. Akashi S, <i>et al.</i> 2003. <i>J. Exp. Med.</i> 198:1035. 3. Matsuura K, <i>et al.</i> 1994. <i>J. Exp. Med.</i> 179:1671. 4. Liu S, <i>et al.</i> 1998. <i>Infect. Immun.</i> 66:5089.
Gene ID	12475

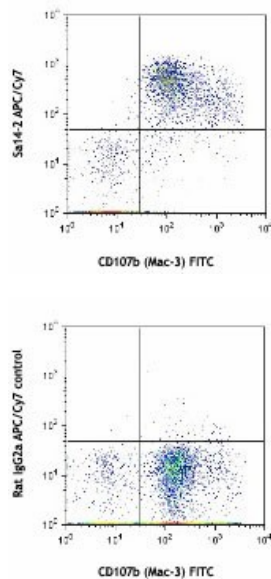
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD14, Biotin anti-mouse CD14, FITC anti-mouse CD14, PE anti-mouse CD14, APC anti-mouse CD14, PerCP/Cyanine5.5 anti-mouse CD14, PE/Cyanine7 anti-mouse CD14, APC/Cyanine7 anti-mouse CD14, Purified anti-mouse CD14 (Maxpar® Ready), Brilliant Violet 510™ anti-mouse CD14, Brilliant Violet 421™ anti-mouse CD14, Alexa Fluor® 647 anti-mouse CD14, PE/Dazzle™ 594 anti-mouse CD14, APC/Fire™ 750 anti-mouse CD14, TotalSeq™-A0424 anti-mouse CD14, TotalSeq™-C0424 anti-mouse CD14, TotalSeq™-B0424 anti-mouse CD14, Brilliant Violet 605™ anti-mouse CD14, Brilliant Violet 785™ anti-mouse CD14 Antibody

Product Data



Thioglycolate-elicited Balb/c mouse peritoneal macrophages were stained with CD107b (Mac-3) FITC and CD14 (clone Sa14-2) APC/Cyanine7 (top) or rat IgG2a, κ APC/Cyanine7 isotype control (bottom).

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