

## PE/Cyanine7 anti-mouse CD14 Antibody

<b>Catalog# / Size</b>	123315 / 25 µg 123316 / 100 µg
<b>Clone</b>	Sa14-2
<b>Other Names</b>	LPS receptor
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	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

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<b>Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Mouse thymus or spleen
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with PE/Cyanine7 under optimal conditions.
<b>Concentration</b>	0.2 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	FC - Quality tested
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Additional Product Notes</b>	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact <a href="#">Technical Service</a> if you have any questions.
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>1. Wallner S, et al. 2013. PLoS One. 8:65178. PubMed</li> <li>2. Pinget G, et al. 2016. Immunol Cell Biol. 10.1038/icb.2016.48. PubMed</li> <li>3. Schmidleithner L et al. 2019. Immunity. 50(5):1232-1248 . PubMed</li> </ol>
<b>RRID</b>	AB_10641133 (BioLegend Cat. No. 123315) AB_10645329 (BioLegend Cat. No. 123316)

### Antigen Details

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<b>Structure</b>	GPI-linked membrane glycoprotein, 53-55 kD
<b>Distribution</b>	macrophages, dendritic cells, kupffer cells, hepatocytes
<b>Function</b>	LPS receptor, clearance of Gram-negative pathogens
<b>Ligand/Receptor</b>	LPS
<b>Cell Type</b>	Dendritic cells, Macrophages

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

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

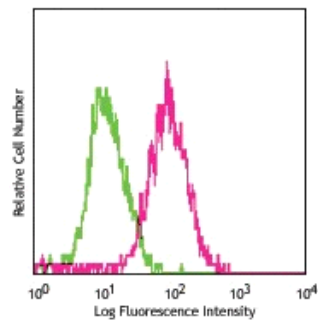
## Other Formats

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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, 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

## Product Data

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Thioglycolate-elicited Balb/c mouse peritoneal macrophages stained with Sa14-2 PE/Cyanine7

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