

## APC anti-mouse CD14 Antibody

<b>Catalog# / Size</b>	123311 / 25 µg 123312 / 100 µg
<b>Clone</b>	Sa14-2
<b>Regulatory Status</b>	RUO
<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>Verified 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 APC 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>	<a href="#">FC - Quality tested</a>
<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 ≤0.25 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>	Red Laser (633 nm)
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Termini C, Lidke K, Gillette J 2016. J Virol. 90: 6443 - 6452.. <a href="#">PubMed</a></li><li>2. Pereira M, <i>et al.</i> 2022. Cell Rep. 40:111225. <a href="#">PubMed</a></li><li>3. Liu J, <i>et al.</i> 2015. Sci Rep. 5: 13558. <a href="#">PubMed</a></li><li>4. Singhal P, <i>et al.</i> 2016. Proc Natl Acad Sci U S A. 113: 122 - 127. <a href="#">PubMed</a></li><li>5. Kitaura A, <i>et al.</i> 2021. PLoS One. 16:e0245957. <a href="#">PubMed</a></li><li>6. Wang Y, <i>et al.</i> 2013. Am J Physiol Lung Cell Mol Physiol. 304:298. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_940574 (BioLegend Cat. No. 123311) AB_940575 (BioLegend Cat. No. 123312)

### 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, <i>et al.</i> 1990. <i>Biochem. J.</i> 268:275.</li> <li>2. Akashi S, <i>et al.</i> 2003. <i>J. Exp. Med.</i> 198:1035.</li> <li>3. Matsuura K, <i>et al.</i> 1994. <i>J. Exp. Med.</i> 179:1671.</li> <li>4. Liu S, <i>et al.</i> 1998. <i>Infect. Immun.</i> 66:5089.</li> </ol>
<b>Gene ID</b>	<a href="#">12475</a>

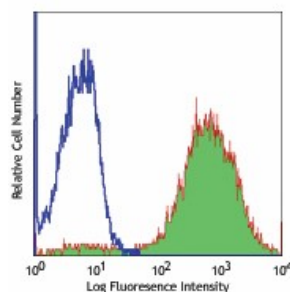
## Related Protocols

[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 stained with Sa14-2 APC

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