

## Alexa Fluor<sup>®</sup> 700 anti-human CD14 Antibody

<b>Catalog# / Size</b>	325614 / 100 µg
<b>Clone</b>	HCD14
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	LPS receptor
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	CD14 is a 53-55 kD glycosylphosphatidylinositol (GPI)-linked membrane glycoprotein also known as LPS receptor. CD14 is expressed at high levels on monocytes and macrophages, and at lower levels on granulocytes. Some dendritic cell populations such as interfollicular dendritic cells, reticular dendritic cells, and Langerhans cells have also been reported to express CD14. As a high-affinity receptor for LPS, CD14 is involved in the clearance of gram-negative pathogens and in the upregulation of adhesion molecules and cytokines expression in monocytes and neutrophils.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<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 Alexa Fluor <sup>®</sup> 700 under optimal conditions.
<b>Concentration</b>	0.5 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>	<p>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 ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>Alexa Fluor<sup>®</sup> and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p><a href="#">View full statement regarding label licenses</a></p>
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunofluorescence microscopy. This clone was tested in-house and does not work on formalin fixed paraffin-embedded (FFPE) tissue.
<b>Application References</b>	<ol style="list-style-type: none"><li>McMichael A, <i>et al.</i> 1987. Leucocyte Typing III. Oxford University Press. New York.</li><li>Knapp W, <i>et al.</i> Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.</li><li>Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.</li></ol>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Product Citations</b>	<ol style="list-style-type: none"><li>Carre C, <i>et al.</i> 2021. iScience. 24:102970. <a href="#">PubMed</a></li><li>Li M, <i>et al.</i> 2021. J Clin Invest. 131:. <a href="#">PubMed</a></li><li>Iwahori K, <i>et al.</i> 2019. Sci Rep. 2.205555556. <a href="#">PubMed</a></li><li>Hasaart KAL, <i>et al.</i> 2020. Sci Rep. 10:12991. <a href="#">PubMed</a></li><li>Kang L, <i>et al.</i> 2020. Exp Hematol Oncol. 9:11. <a href="#">PubMed</a></li><li>Ángela Crespo, Jack Strominger, Tamara Tilburgs 2016. Proc Natl Acad Sci U S A. 113(52):15072-15077. <a href="#">PubMed</a></li></ol>

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**RRID** AB\_830687 (BioLegend Cat. No. 325614)

## Antigen Details

<b>Structure</b>	GPI-linked membrane glycoprotein, 53-55 kD
<b>Distribution</b>	Monocytes, macrophages, granulocytes (low)
<b>Function</b>	LPS receptor, clearance of Gram-negative pathogens
<b>Ligand/Receptor</b>	LPS
<b>Cell Type</b>	Granulocytes, Macrophages, Monocytes, Neutrophils
<b>Biology Area</b>	Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience
<b>Molecular Family</b>	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. Wright S, <i>et al.</i> 1990. <i>Science</i> 249:1434.</li> </ol>
<b>Gene ID</b>	<a href="#">929</a>

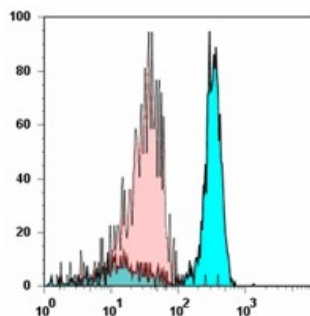
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

PerCP anti-human CD14, Purified anti-human CD14, FITC anti-human CD14, PE anti-human CD14, APC anti-human CD14, Alexa Fluor® 488 anti-human CD14, Alexa Fluor® 647 anti-human CD14, Alexa Fluor® 700 anti-human CD14, Pacific Blue™ anti-human CD14, PE/Cyanine7 anti-human CD14, APC/Cyanine7 anti-human CD14, PerCP/Cyanine5.5 anti-human CD14, Biotin anti-human CD14, Brilliant Violet 421™ anti-human CD14, Alexa Fluor® 594 anti-human CD14, PE/Dazzle™ 594 anti-human CD14, Spark Blue™ 574 anti-human CD14

## Product Data



Human peripheral blood monocytes stained with HCD14 Alexa Fluor® 700

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