

## PerCP/Cyanine5.5 anti-human CD14 Antibody

<b>Catalog# / Size</b>	325621 / 25 tests 325622 / 100 tests
<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

<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 and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with PerCP/Cyanine5.5 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The CD14 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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.  * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
<b>Excitation Laser</b>	Blue Laser (488 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>Additional Product Notes</b>	BioLegend is in the process of converting the name PerCP/Cy5.5 to PerCP/Cyanine5.5. The dye molecule remains the same, so you should expect the same quality and performance from our PerCP/Cyanine5.5 products. Contact <a href="#">Technical Service</a> if you have any questions.
<b>Application References</b>	1. McMichael A, <i>et al.</i> 1987. Leucocyte Typing III. Oxford University Press. New York. 2. Knapp W, <i>et al.</i> Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York. 3. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Product Citations</b>	1. Sposito B, <i>et al.</i> 2021. Cell. 184:4953. <a href="#">PubMed</a> 2. Zhou R, <i>et al.</i> 2020. Immunity. S1074-7613(20)30333-2.. <a href="#">PubMed</a> 3. Kimura I, <i>et al.</i> 2022. Cell Rep. 38:110218. <a href="#">PubMed</a> 4. Weisberg SP, <i>et al.</i> 2020. Cell Reports. 29(12):3916-3932.e5.. <a href="#">PubMed</a>

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**RRID** AB\_893252 (BioLegend Cat. No. 325621)  
 AB\_893250 (BioLegend Cat. No. 325622)

## Antigen Details

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<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>	1. Stocks S, <i>et al.</i> 1990. <i>Biochem. J.</i> 268:275. 2. Wright S, <i>et al.</i> 1990. <i>Science</i> 249:1434.
<b>Gene ID</b>	<a href="#">929</a>

## Related Protocols

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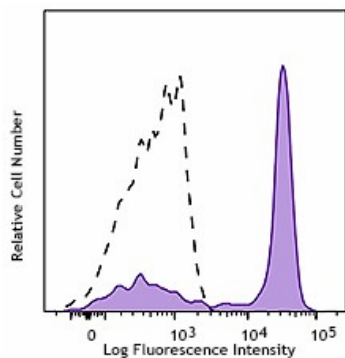
[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

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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 were stained with CD14 (Clone HCD14) PerCP/Cyanine5.5 (filled histogram), or mouse IgG1, ? PerCP/Cyanine5.5 isotype control (open histogram).

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