

Biotin anti-human CD14 Antibody

Catalog# / Size	325623 / 25 µg 325624 / 100 µg
Clone	HCD14
Regulatory Status	RUO
Other Names	LPS receptor
Isotype	Mouse IgG1, κ
Description	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

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	FC - Quality tested Cell Separation (MojoSort™) - Verified
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 ≤2.0 µg per million cells in 100 µl volume. For magnetic cell separation with MojoSort™ streptavidin Nanobeads (Cat. No. 480015/480016), the suggested use of this reagent is ≤20 µg per 10 million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	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.
Application References	<ol style="list-style-type: none"> 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.
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none"> 1. Riether C, <i>et al.</i> 2021. Cell Reports. 34(4):108663. PubMed 2. Thaker YR, <i>et al.</i> 2022. Front Oncol. 12:884196. PubMed 3. Hinterbrandner M, <i>et al.</i> 2021. JCI Insight. 6:e151797. PubMed 4. Omer OS, <i>et al.</i> 2020. Methods Mol Biol. 2121:199. PubMed 5. Vasamsetti SB, <i>et al.</i> 2018. Immunity. 49:93. PubMed 6. Heyde A, <i>et al.</i> 2021. Cell. 184(5):1348-1361.e22. PubMed
RRID	AB_2074053 (BioLegend Cat. No. 325623) AB_2074052 (BioLegend Cat. No. 325624)

Antigen Details

Structure	GPI-linked membrane glycoprotein, 53-55 kD
Distribution	Monocytes, macrophages, granulocytes (low)
Function	LPS receptor, clearance of Gram-negative pathogens
Ligand/Receptor	LPS
Cell Type	Granulocytes, Macrophages, Monocytes, Neutrophils
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience
Molecular Family	CD Molecules
Antigen References	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.
Gene ID	929

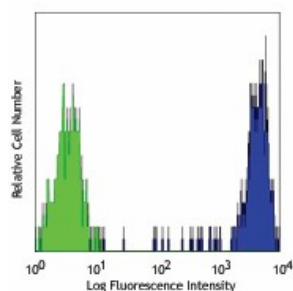
Related Protocols

[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 biotinylated HCD14 and then detected with Sav-PE

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