PE/Cyanine7 anti-human CD14 Antibody

Catalog# / Size	399231 / 25 tests 399232 / 100 tests
Clone	S18004B
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
Immunogen	Recombinant human CD14
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze**.
Application	FC - Quality tested
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 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
RRID	AB_3675132 (BioLegend Cat. No. 399231) AB_3675132 (BioLegend Cat. No. 399232)

Antigen Details

Structure	GPI-linked membrane glycoprotein, 53-55 kD
Distribution	Monocytes, macrophages, granulocytes (low)
Function	LPS receptor, clearance of Gram-negative pathogens

Interaction	Monocytes, Macrophages, Granulocytes, Neutrophils
Ligand/Receptor	LPS
Cell Type	B cells, Dendritic cells, Mesenchymal Stem Cells, Tregs
Biology Area	Cell Biology, Immunology, Innate Immunity
Molecular Family	CD Molecules
Antigen References	1. Stocks SC, *et al.* 1990. *Biochem. J.* 268:275. 2. Wright SD, *et al.* 1990. *Science* 4975:1431.
Gene ID	929

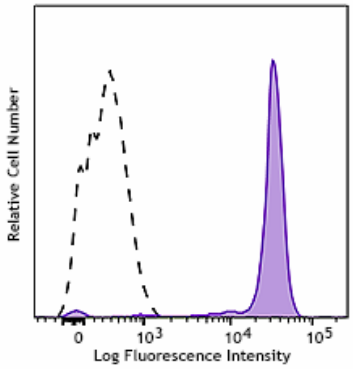
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

Purified anti-human CD14, PE anti-human CD14, APC anti-human CD14, Spark YG™ 593 anti-human CD14, Spark NIR™ 685 anti-human CD14 Antibody, KIRAVIA Blue 520™ anti-human CD14 Antibody, Spark Violet™ 538 anti-human CD14, Spark UV™ 387 anti-human CD14, Spark Red™ 718 anti-human CD14, PE/Fire™ 700 anti-human CD14, PE/Fire™ 810 anti-human CD14, APC/Fire™ 810 anti-human CD14, Spark Blue™ 515 anti-human CD14, Spark PLUS UV395™ anti-human CD14, PE/Cyanine7 anti-human CD14, APC/Fire™ 750 anti-human CD14

Product Data



Human peripheral blood monocytes were stained with anti-human CD14 (clone S18004B) PE/Cyanine7 (filled histogram) or mouse IgG1, κ PE/Cyanine7 isotype control (open histogram).

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