

## Spark PLUS UV395™ anti-human CD14 Antibody

<b>Catalog# / Size</b>	399227 / 25 tests 399228 / 100 tests
<b>Clone</b>	S18004B
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	LPS receptor
<b>Isotype</b>	Mouse IgG1, $\kappa$
<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>Immunogen</b>	Recombinant human CD14
<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 Spark PLUS UV395™ under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<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 5 $\mu$ L per million cells in 100 $\mu$ L staining volume or 5 $\mu$ L per 100 $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.  * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
<b>Excitation Laser</b>	Ultraviolet Laser (355 nm)
<b>RRID</b>	AB_3675131 (BioLegend Cat. No. 399227) AB_3675131 (BioLegend Cat. No. 399228)

### 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>Interaction</b>	Monocytes, Macrophages, Granulocytes, Neutrophils

<b>Ligand/Receptor</b>	LPS
<b>Cell Type</b>	B cells, Dendritic cells, Mesenchymal Stem Cells, Tregs
<b>Biology Area</b>	Cell Biology, Immunology, Innate Immunity
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Stocks SC, <i>et al.</i> 1990. <i>Biochem. J.</i> 268:275.</li> <li>2. Wright SD, <i>et al.</i> 1990. <i>Science</i> 4975:1431.</li> </ol>
<b>Gene ID</b>	<a href="#">929</a>

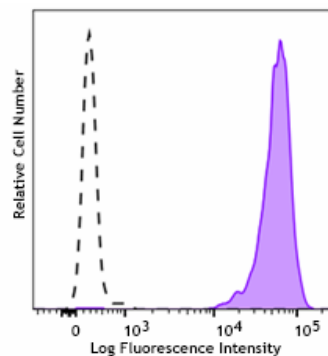
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

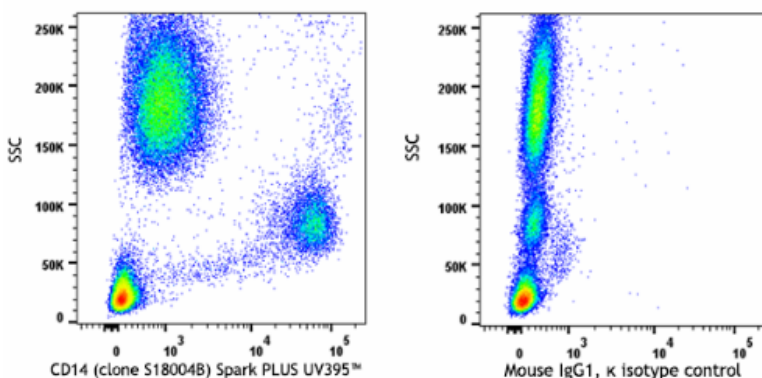
## Other Formats

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) Spark PLUS UV395™ (filled histogram) or with mouse IgG1, κ Spark PLUS UV395™ isotype control (open histogram).



Human peripheral blood cells were stained with anti-human CD14 (clone S18004B) Spark PLUS UV395™ or with mouse IgG1, κ Spark PLUS UV395™ isotype control (right).

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