

## PE/Dazzle™ 594 anti-mouse CD14 Antibody

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| <b>Catalog# / Size</b>   | 123325 / 25 µg<br>123326 / 100 µg  |
| <b>Clone</b>             | Sa14-2   |
| <b>Regulatory Status</b> | RUO  |
| <b>Other Names</b>       | LPS receptor   |
| <b>Isotype</b>           | Rat IgG2a, κ   |
| <b>Description</b>       | CD14 is a 53-55 kD glycosylphosphatidylinositol (GPI)-linked membrane glycoprotein also known as LPS receptor. CD14 is expressed on macrophages, dendritic cells, Kupffer cells, hepatocytes, and granulocytes. As a high-affinity receptor for LPS-LBP (LPS-binding protein) complex, CD14, in association with Toll-like Receptor 4 (TLR4) or 2 (TLR2), is involved in the clearance of gram-negative pathogens. |

### Product Details

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| <b>Verified Reactivity</b>    | Mouse   |
| <b>Antibody Type</b>          | Monoclonal  |
| <b>Host Species</b>           | Rat   |
| <b>Immunogen</b>              | Mouse thymus or spleen  |
| <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 PE/Dazzle™ 594 under optimal conditions.   |
| <b>Concentration</b>          | 0.2 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. Do not freeze.  |
| <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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.<br><br>* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm. |
| <b>Excitation Laser</b>       | Blue Laser (488 nm)<br>Green Laser (532 nm)/Yellow-Green Laser (561 nm)   |
| <b>Product Citations</b>      | 1. Aldrich AL, <i>et al.</i> 2021. The Journal of Immunology. 206(4):751-765. <a href="#">PubMed</a><br>2. Guilliams M, <i>et al.</i> 2022. Cell. 185:379. <a href="#">PubMed</a>   |
| <b>RRID</b>                   | AB_2721697 (BioLegend Cat. No. 123325)<br>AB_2721698 (BioLegend Cat. No. 123326)  |

### Antigen Details

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| <b>Structure</b>    | GPI-linked membrane glycoprotein, 53-55 kD               |
| <b>Distribution</b> | macrophages, dendritic cells, kupffer cells, hepatocytes |
| <b>Function</b>     | LPS receptor, clearance of Gram-negative pathogens       |

|                           |  |
|---------------------------|--|
| <b>Ligand/Receptor</b>    | LPS  |
| <b>Cell Type</b>          | Dendritic cells, Macrophages   |
| <b>Biology Area</b>       | Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience   |
| <b>Molecular Family</b>   | Adhesion Molecules, 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. Akashi S, <i>et al.</i> 2003. <i>J. Exp. Med.</i> 198:1035.</li> <li>3. Matsuura K, <i>et al.</i> 1994. <i>J. Exp. Med.</i> 179:1671.</li> <li>4. Liu S, <i>et al.</i> 1998. <i>Infect. Immun.</i> 66:5089.</li> </ol> |
| <b>Gene ID</b>            | <a href="#">12475</a>  |

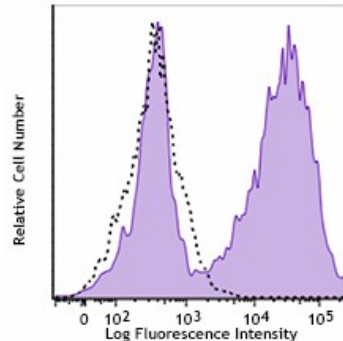
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-mouse CD14, Biotin anti-mouse CD14, FITC anti-mouse CD14, PE anti-mouse CD14, APC anti-mouse CD14, PerCP/Cyanine5.5 anti-mouse CD14, PE/Cyanine7 anti-mouse CD14, APC/Cyanine7 anti-mouse CD14, Purified anti-mouse CD14 (Maxpar® Ready), Brilliant Violet 510™ anti-mouse CD14, Brilliant Violet 421™ anti-mouse CD14, Alexa Fluor® 647 anti-mouse CD14, PE/Dazzle™ 594 anti-mouse CD14, APC/Fire™ 750 anti-mouse CD14, TotalSeq™-A0424 anti-mouse CD14, TotalSeq™-C0424 anti-mouse CD14, TotalSeq™-B0424 anti-mouse CD14, Brilliant Violet 605™ anti-mouse CD14, Brilliant Violet 785™ anti-mouse CD14 Antibody

## Product Data



Thioglycollate-elicited BALB/c mouse peritoneal macrophages were stained with CD14 (clone Sa14-2) PE/Dazzle™ 594 (filled histogram) or rat IgG2a, κ PE/Dazzle™ 594 isotype control (open histogram).

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