

## PE/Dazzle™ 594 anti-human CD204 Antibody

<b>Catalog# / Size</b>	371919 / 25 tests 371920 / 100 tests
<b>Clone</b>	7C9C20
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	CD204, Macrophage scavenger receptor, MSR, MSR1, SRA
<b>Isotype</b>	Mouse IgG2a, κ
<b>Description</b>	CD204, also known as scavenger receptor A (SR-A) and the macrophage scavenger receptor (MSR), is one of the phagocytic pattern-recognition receptors (PRRs) expressed on macrophages and dendritic cells. CD204 was initially identified as a receptor mediating recognition and internalization of low-density lipoprotein (LDL) by macrophages and playing critical roles in atherogenesis. CD204 recognizes apoptotic cells, modified lipid proteins, and exogenous pathogen-associated molecular patterns (PAMPs), which results in the induction of innate immune and inflammatory responses. CD204 can act as a co-receptor for Toll-like receptors, such as TLR3, TLR4, or TLR9, to facilitate the expression of proinflammatory cytokines. CD204 has been implicated in several pathological processes such as Alzheimer's disease, sepsis, ischemic injury, and coronary artery disease.

### 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 extracellular domain of human CD204.
<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 PE/Dazzle™ 594 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 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.  * 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) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>RRID</b>	AB_3683398 (BioLegend Cat. No. 371919) AB_3683398 (BioLegend Cat. No. 371920)

### Antigen Details

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<b>Structure</b>	Type II transmembrane protein, trimer, member of the scavenger receptor family.
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<b>Distribution</b>	Macrophages, dendritic cells, strong expression in microglia during Alzheimer's disease.
<b>Function</b>	Uptake of negatively charged molecules.
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Kelley JL, <i>et al.</i> 2014. <i>Crit. Rev. Immunol.</i> 34:241.</li> <li>2. Chen Y, <i>et al.</i> 2011. <i>Blood.</i> 118:390.</li> <li>3. Yu X, <i>et al.</i> 2011. <i>J. Biol. Chem.</i> 286:18795.</li> <li>4. Limmon GV, <i>et al.</i> 2008. <i>FASEB J.</i> 22:159.</li> </ol>
<b>Gene ID</b>	<a href="#">4481</a>

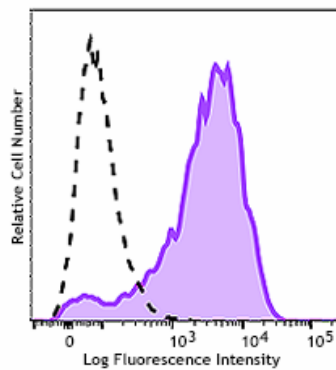
## Related Protocols

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

## Other Formats

Purified anti-human CD204, PE anti-human CD204, APC anti-human CD204, PE/Cyanine7 anti-human CD204, TotalSeq™-A0399 anti-human CD204, TotalSeq™-B0399 anti-human CD204, TotalSeq™-C0399 anti-human CD204, TotalSeq™-D0399 anti-human CD204, APC/Cyanine7 anti-human CD204, PE/Dazzle™ 594 anti-human CD204 Antibody

## Product Data



Human peripheral blood monocytes were stimulated with recombinant human GM-CSF (6 days), and then stained with anti-human CD204 (clone 7C9C20) PE/Dazzle™ 594 (filled histogram) or mouse IgG2a, κ PE/Dazzle™ 594 isotype control (open histogram).

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