

APC/Cyanine7 anti-human CD204 Antibody

Catalog# / Size	371917 / 25 tests 371918 / 100 tests
Clone	7C9C20
Regulatory Status	RUO
Other Names	CD204, Macrophage scavenger receptor, MSR, MSR1, SRA
Isotype	Mouse IgG2a, κ
Description	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

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant extracellular domain of human CD204.
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 APC/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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
RRID	AB_3675089 (BioLegend Cat. No. 371917) AB_3675089 (BioLegend Cat. No. 371918)

Antigen Details

Structure	Type II transmembrane protein, trimer, member of the scavenger receptor family.
Distribution	Macrophages, dendritic cells, strong expression in microglia during Alzheimer's disease.

Function Uptake of negatively charged molecules.

Antigen References

1. Kelley JL, *et al.* 2014. *Crit. Rev. Immunol.* 34:241.
2. Chen Y, *et al.* 2011. *Blood.* 118:390.
3. Yu X, *et al.* 2011. *J. Biol. Chem.* 286:18795.
4. Limmon GV, *et al.* 2008. *FASEB J.* 22:159.

Gene ID [4481](#)

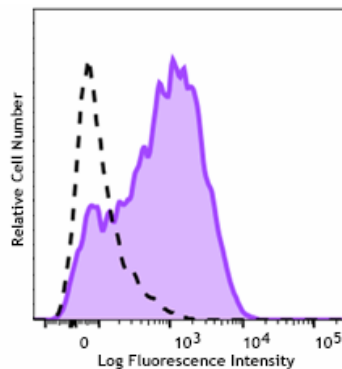
Related Protocols

- [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) APC/Cyanine7 (filled histogram) or mouse IgG2a, κ APC/Cyanine7 isotype control (open histogram).

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587