

APC anti-mouse CD206 (MMR) Antibody

Catalog# / Size	141707 / 25 µg 141708 / 100 µg
Clone	C068C2
Other Names	MMR (macrophage mannose receptor), MR (mannose receptor), MRC1
Isotype	Rat IgG2a, κ
Description	CD206, also known as mannose receptor (MR), is a 175 kD type I membrane protein. It is a pattern recognition receptor (PRR) belonging to the C-type lectin superfamily. MR is expressed on macrophages, dendritic cells, Langerhans cells, and hepatic or lymphatic endothelial cells. MR recognizes a range of microbial carbohydrates bearing mannose, fucose, or N-acetyl glucosamine through its C-type lectin-like carbohydrate recognition domains, sulfated carbohydrate antigens through its cysteine-rich domain, and collagens through its fibronectin type II domain. MR mediates endocytosis and phagocytosis as well as activation of macrophages and antigen presentation. It plays an important role in host defense and provides a link between innate and adaptive immunity. Recently, MR on lymphatic endothelial cells was found to be involved in leukocyte trafficking and a contributor to the metastatic behavior of cancer cells. It suggests that MR may be a potential target in controlling inflammation and cancer metastasis by targeting the lymphatic vasculature.

Product Details

Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant mouse CD206 (MMR)
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	0.2 mg/ml
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	ICFC - Quality tested FC - Validated
Recommended Usage	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	Clone C068C2 recognizes a region similar to clone MR5D3, based on the ability of the clones to block each other.
Application References	<ol style="list-style-type: none"> 1. Keller J, et al. 2012. <i>Biochem Biophys Res Commun.</i> 417:217. PubMed 2. Ito H, et al. 2012. <i>J Am Soc Nephrol.</i> 23:1797. PubMed 3. Yang X, et al. 2015. <i>PNAS.</i> 112:2900. PubMed
(PubMed link indicates BioLegend citation)	

Product Citations	<ol style="list-style-type: none"> 1. He H, et al. 2012. <i>Blood.</i> 120:3152. PubMed 2. Taguchi K, et al. 2014. <i>J Am Soc Nephrol.</i> 25:1680. PubMed 3. Canan C, et al. 2014. <i>J Leukoc Biol.</i> 96:473. PubMed 4. Giordano C, et al. 2014. <i>Hum Mol Genet.</i> . PubMed 5. Lasky C, et al. 2015. <i>Infect Immun.</i> 83: 2627 - 2635. PubMed 6. Moya-Pérez A, et al. 2015. <i>PLoS One.</i> 10: 0126976. PubMed 7. Mylonas K, et al. 2015. <i>Immunobiology.</i> 220: 924-933. PubMed 8. Taguchi K, et al. 2015. <i>J Urol.</i> . PubMed 9. Cardona S, et al. 2015. <i>ASN Neuro.</i> 7: 1759091415608204. PubMed 10. Dai K, et al. 2015. <i>J Leukoc Biol.</i> 98: 1071 - 1080. PubMed 11. Tahiri H, et al. 2016. <i>Sci Rep.</i> 6:37391. PubMed
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RRID AB_10896057 (BioLegend Cat. No. 141707)
 AB_10900231 (BioLegend Cat. No. 141708)

Antigen Details

Structure	Type I transmembrane protein, 175 kD, C-type lectin superfamily
Distribution	Macrophages, dendritic cells, Langerhans cells, liver endothelial cells
Function	Pathogen recognition, endocytosis and phagocytosis, antigen presentation
Ligand/Receptor	Antigen containing mannose, fucose, or an N-acetyl glucosamine
Cell Type	Dendritic cells, Endothelial cells, Langerhans cells, Macrophages
Biology Area	Cell Biology, Immunology, Innate Immunity, Signal Transduction
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Wileman TE, et al. 1986. P. Natl. Acad. Sci. USA 83:2501. 2. Apostolopoulos V, et al. 2001. Curr. Mol. Med. 1:469. 3. Burgdorf S, et al. 2006. J. Immunol. 176:6770. 4. McKenzie EJ, et al. 2007. J. Immunol. 178:4975.
Gene ID	17533

Related Protocols

[Intracellular Cytokine Staining Protocol - Video](#)

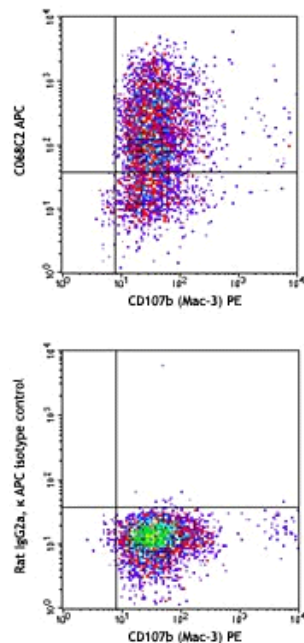
[Cell Surface Flow Cytometry Staining Protocol](#)

[Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Biotin anti-mouse CD206 (MMR), Purified anti-mouse CD206 (MMR), FITC anti-mouse CD206 (MMR), PE anti-mouse CD206 (MMR), Alexa Fluor® 488 anti-mouse CD206 (MMR), Alexa Fluor® 647 anti-mouse CD206 (MMR), PerCP/Cyanine5.5 anti-mouse CD206 (MMR), PE/Cyanine7 anti-mouse CD206 (MMR), Brilliant Violet 421™ anti-mouse CD206 (MMR), Brilliant Violet 605™ anti-mouse CD206 (MMR), Brilliant Violet 650™ anti-mouse CD206 (MMR), Alexa Fluor® 594 anti-mouse CD206 (MMR), Brilliant Violet 711™ anti-mouse CD206 (MMR), Brilliant Violet 785™ anti-mouse CD206 (MMR), PE/Dazzle™ 594 anti-mouse CD206 (MMR), Alexa Fluor® 700 anti-mouse CD206 (MMR), Spark YG™ 570 anti-mouse CD206 (MMR)

Product Data



Thioglycollate-elicited BALB/c peritoneal macrophages were surface stained with CD107b (Mac-3) PE, and then intracellularly stained with CD206 (clone C068C2) APC (top) or rat IgG2a, κ APC isotype control (bottom).

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