CD206 (MMR) Monoclonal Antibody (MR6F3), APC, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MR6F3
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_2637419

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	68 Publications

Product Specific Information

Description: This MR6F3 antibody recognizes mouse CD206 also known as Macrophage Mannose Receptor (MMR) or Mannose Receptor C, Type 1 (MRC1). CD206 is a 175-kDa, type 1 integral membrane glycoprotein receptor that is present in macrophages, some dendritic cells, as well as liver and lymphoid endothelial cells. CD206 belongs to the C-type lectin family. Extracellular regions of CD206 include an N-terminal cysteine-rich (CR) domain that binds sulfated glycoproteins, a fibronectin II (FNII) domain that binds collagens, and eight carbohydrate recognition domains (CRDs) that bind sugars like mannose and fucose with high affinity. CD206 mediates phagocytic and endocytic uptake of fungal, bacterial, protozoan and viral antigens, and plays an important role in immune defense and immune regulation. A soluble form of CD206 is generated by cleavage of the full-length protein, and it can be detected in in vitro macrophage cell culture supernatants and in mouse serum. CD206 is considered to be one of the markers of M2 macrophages. Factors inducing its expression include: IL-4, IL-13, M-CSF, IL-6, IL-10, and glucocorticoids, while TNF-alpha, IFN-gamma, TGF-beta, and LPS have been reported to down-regulate expression of CD206.

It has been demonstrated that only a small fraction of CD206 is present at the cell surface, therefore, intracellular staining is recommended.

Applications Reported: This MR6F3 antibody has been reported for use in flow cytometric analysis, and intracellular staining followed by flow cytometric analysis.

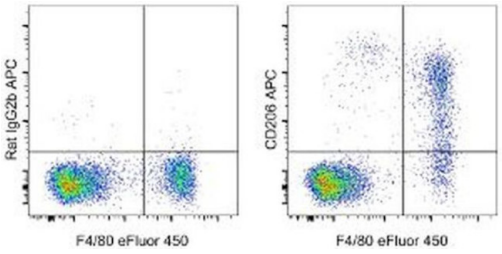
Applications Tested: This MR6F3 antibody has been tested by intracellular staining and flow cytometric analysis of mouse resident peritoneal exudate cells using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will

stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD206 (MMR) Monoclonal Antibody (MR6F3), APC, eBioscience™



CD206 (MMR) Antibody (17-2061-80) in Flow
Mouse resident peritoneal exudate cells were surface stained with Anti-Mouse F4 /80 Antigen eFluor® 450 (Product # 48-4801-82) followed by fixation and permeabilization with the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00). Cells were then intracellularly stained with 0.125 µg of Rat IgG2b K Isotype Control APC (Product # 17-4031-82) (left) or 0.125 µg of Anti-Mouse CD206 (MMR) APC (right). Total cells were used for analysis.

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68 References

Flow Cytometry (68)

Bioactive materials

Apoptotic extracellular vesicles restore homeostasis of the articular microenvironment for the treatment of rheumatoid arthritis.

"Published figure using CD206 (MMR) monoclonal antibody (Product # 17-2061-82) in Flow Cytometry"

Authors: Li X,Li S,Fu X,Wang Y

Year
2024

Viruses

Mesenchymal Stem Cell-Derived Exosomes Attenuate Murine Cytomegalovirus-Infected Pneumonia via NF-B/NLRP3 Signaling Pathway.

"Published figure using CD206 (MMR) monoclonal antibody (Product # 17-2061-82) in Flow Cytometry"

Authors: Chen F,Chen Z,Wu HT,Chen XX,Zhan P,Wei ZY,Ouyang Z,Jiang X,Shen A,Luo MH,Liu Q,Zhou YP,Qin A

Year
2024

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn