

CD206 (MMR) Monoclonal Antibody (MR6F3), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MR6F3
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 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_2784688

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	24 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 intracellular staining followed by flow cytometric analysis.

Applications Tested: This MR6F3 antibody has been tested by intracellular staining followed by flow cytometric analysis of

resident peritoneal macrophages. This may be used at less than or equal to 0.125 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

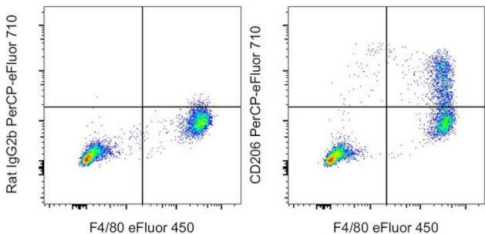
PerCP-eFluor 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser

Product Images For CD206 (MMR) Monoclonal Antibody (MR6F3), PerCP-eFluor™ 710, eBioscience™



CD206 (MMR) Antibody (46-2061-82) in Flow
C57BL/6 mouse resident peritoneal macrophages were stained intracellularly, using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol, with F4/80 Monoclonal Antibody, eFluor 450 (Product # 48-4801-82) and 0.06 µg of Rat IgG2b kappa Isotype Control, PerCP-eFluor 710 (Product # 46-4031-82) (left) or 0.06 µg of CD206 Monoclonal Antibody, PerCP-eFluor 710 (right). Cells in the lymphocyte gate were used for analysis.

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Immunocytochemistry (1)

International journal of medical sciences	Year 2022
Thymopentin treatment of murine premature ovarian failure via attenuation of immune cell activity and promotion of the BMP4/Smad9 signalling pathway.	
"Published figure using CD206 (MMR) monoclonal antibody (Product # 46-2061-82) in Immunocytochemistry"	
Authors: Zhu X,Liu J,Pan H,Geng Z,Huang W,Liu T,Zhang B	

Flow Cytometry (24)

Bioactive materials	Year 2023
Spontaneous immunomodulation and regulation of angiogenesis and osteogenesis by Sr/Cu-borosilicate glass (BSG) bone cement to repair critical bone defects.	
"Published figure using CD206 (MMR) monoclonal antibody (Product # 46-2061-82) in Flow Cytometry"	
Authors: Li S,Zhang L,Liu C,Kim J,Su K,Chen T,Zhao L,Lu X,Zhang H,Cui Y,Cui X,Yuan F,Pan H	

Materials today. Bio	Year 2023
Oxygen-carrying nanoplatform to reprogram tumor immunosuppressive microenvironment and enhance photothermal-immunotherapy.	
"Published figure using CD206 (MMR) monoclonal antibody (Product # 46-2061-82) in Flow Cytometry"	
Authors: Huang J,Leng X,Jiang T,Xu L,Zheng J,Fang M,Wang J,Wang Z,Zhang L	

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More applications with references on thermofisher.com

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