

CD206 (MMR) Monoclonal Antibody (MR6F3), PE-eFluor™ 610, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE-eFluor™ 610, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MR6F3
Conjugate	PE-eFluor™ 610
Excitation/Emission Max	565/606 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_2802389

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 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 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 and Permeabilization Buffer Set (cat. 88-8824) 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

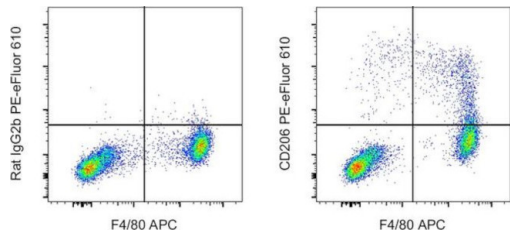
PE-eFluor 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red). Please make sure that your instrument is capable of detecting this fluorochrome.

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: 488-561 nm; Emission: 607 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser

Product Images For CD206 (MMR) Monoclonal Antibody (MR6F3), PE-eFluor™ 610, eBioscience™



CD206 (MMR) Antibody (61-2061-82) 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, APC (Product # 17-4801-82) and 0.125 µg of Rat IgG2b kappa Isotype Control, PE-eFluor 610 (Product # 61-4031-80) (left) or 0.125 µg of CD206 (MMR) Monoclonal Antibody, PE-eFluor 610 (right). Total cells were used for analysis.

View more figures on thermofisher.com

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 # 61-2061-82) 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 # 61-2061-82) 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 # 61-2061-82) in Flow Cytometry"	
Authors: Huang J,Leng X,Jiang T,Xu L,Zheng J,Fang M,Wang J,Wang Z,Zhang L	

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.