

Rat CD206 Monoclonal Antibody | anti-CD206 antibody

RAT ANTI MOUSE CD206:Biotin

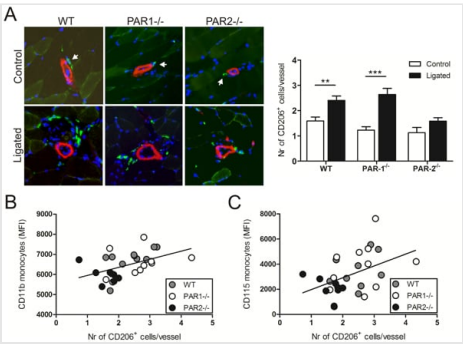
CATALOG # AAA12117	HOST Rat	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD206; Monoclonal Antibody; RAT ANTI MOUSE CD206:Biotin; anti-CD206 antibody

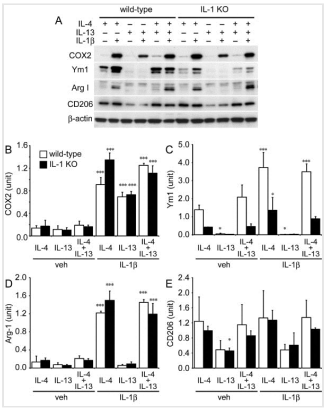
PRODUCT SPECIFICATIONS

Host	Rat
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	MR5D3
Form/Format	Biotin Purified IgG conjugated to Biotin - liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Sequence Length	1456
Applicable Applications for anti-CD206 antibody	FCM/FACS (Flow Cytometry)
Application Notes	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR. Flow Cytometry: Minimum Dilution: Neat; Maximum Dilution: 1/10; Application Note: CD206 is expressed weakly at the cell surface. Staining may be increased following membrane permeabilisation. We recommends the use of Leucoperm for this purpose.
Perservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin Preparation
Buffer Solution	Phosphate buffered saline
Target Species	Mouse
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.



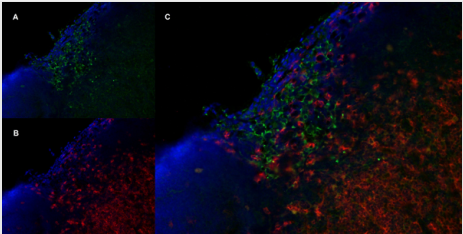
Application Data

Published customer image: Increased accumulation of repair-associated macrophages surrounding collaterals in ischemic hind limbs is PAR2-dependent. (A) Stainings of CD206-positive macrophages (green) and SMA-positive vessels (red) in non-ischemic (control) and ischemic (ligated) hind limbs of WT, PAR1-/- and PAR2-/- mice are shown. Nuclei were visualized with DAPI (blue). Arrows indicate single macrophages in the non-ischemic adductor. Quantification of the average number of repair-associated macrophages per vessel is indicated on the right. (B) Correlation between the number of CD206-positive macrophages in the ischemic tissues and the expression of CD11b and (C) CD115 on monocytes. ** p



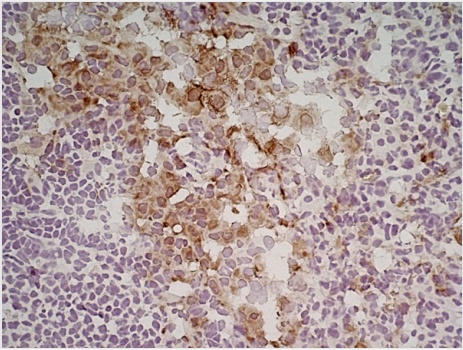
Application Data

Published customer image: Western blot analysis to determine type of activation of adult primary microglial cells produced from wild-type and IL-1 KO mice and exposed for 24 hours to IL-4, IL-13 or IL-4 plus IL-13 (IL-4/IL-13) with or without IL-1beta. (A) Representative western blotting data of primary microglial cells produced from wild-type (wild) and IL-1 KO mice and exposed for 24 hours to IL-4, IL-13 or IL-4 plus IL-13 (IL-4/IL-13) with or without IL-1beta. Each lane expected to CD206 blotting were applied 7 ug of reduced samples. Non-reduced samples (5 ug) were applied to detect CD206. Densitometric analysis of COX2 (B), Ym1 (C), Arg-1 (D) and CD206 (E) (n = 3 each group). (B) COX2 levels are increased by exposure of cells to IL-1beta and are not influenced by IL-4 or IL-13 alone. The COX2 level was slightly enhanced by IL-1beta and IL-4 co-treatment. (C) Ym1 levels are increased by exposure of cells to IL-4 and IL-4/IL-13 and are synergistically increased by co-treatment with IL-1beta. However, only a low level of Ym1 is seen upon exposure of cells to IL-13, and is significantly less than that seen in response to exposure of cells to IL-4. (D) Arg-1 shows similar levels in response to exposure to IL-4 and IL-4/IL-13; these are synergistically increased by co-treatment with IL-1beta. However, low levels of Arg-1 are seen for exposure of cells to IL-13. (G) CD206 was detected in response to exposure of cells to both IL-4 and IL-4/IL-13 with or without IL-1beta; however, CD206 levels in IL-13-exposed samples were lower than those seen with the other treatments. Data are expressed as mean +/- SD (n = 3). *; P < 0.05, **; P < 0.01, ***; P < 0.001 compared with the IL-4-treated group without IL-1beta for each genotype (one-way ANOVA followed by Dunnett post-hoc test). ANOVA, analysis of variance; arg-1, arginase 1; COX 2, cyclooxygenase 2. From: Sato A, Ohtaki H, Tsumuraya T, Song D, Ohara K, Asano M, Iwakura Y, Atsumi T, Shioda S. Interleukin-1 participates in the classical and alternative activation of microglia/macrophages after spinal cord injury. J Neuroinflammation. 2012 Apr 7;9:65.



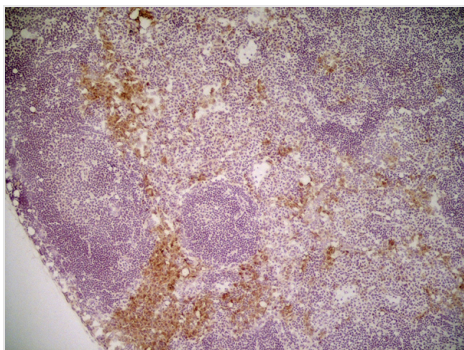
Application Data

Immunofluorescence staining of a mouse lymph node cryosection with Rat anti Mouse CD206 antibody, clone MR5D3, green in A and Rat anti Mouse CD8 antibody, clone YTS105.18, red in B. C is the merged image with nuclei counterstained in blue using DAPI. Low power



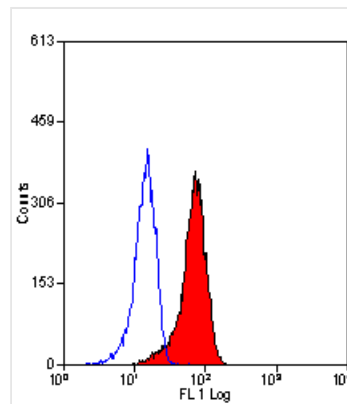
Application Data

Immunoperoxidase staining of a mouse lymph node cryosection with Rat anti Mouse CD206 antibody, clone MR5D3 followed by horseradish peroxidase conjugated Goat anti Rat IgG antibody. High power



Application Data

Immunoperoxidase staining of a mouse lymph node cryosection with Rat anti Mouse CD206 antibody, clone MR5D3 followed by horseradish peroxidase conjugated Goat anti Rat IgG antibody . Low power



Application Data

Staining of J774 cell line with Rat anti Mouse CD206 following permeabilisation with Leucoperm

NCBI AND UNIPROT INFORMATION

NCBI GI #	224967062
NCBI GeneID	17533
NCBI Accession #	NP_032651.2
NCBI GenBank Nucleotide #	NM_008625.2
Molecular Weight	164,981 Da
NCBI Official Full Name	macrophage mannose receptor 1
NCBI Official Synonym Full Names	mannose receptor, C type 1
NCBI Official Symbol	Mrc1
NCBI Official Synonym Symbols	MR; CD206; AW259686
NCBI Protein Information	macrophage mannose receptor 1; MMR
UniProt Protein Name	Macrophage mannose receptor 1
UniProt Gene Name	Mrc1
UniProt Synonym Gene Names	MMR
UniProt Entry Name	MRC1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd206-antibody-clone-mr5d3-flow-cytometry-elisa/12117>