

Rat CD206 Monoclonal Antibody | anti-CD206 antibody

RAT ANTI MOUSE CD206:RPE

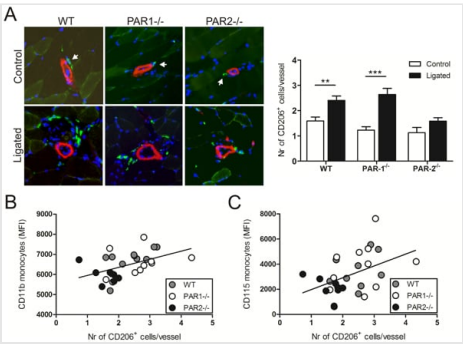
CATALOG # AAA12124	HOST Rat	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

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

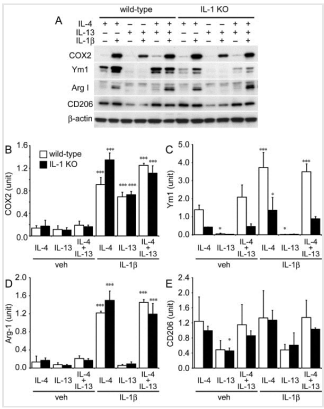
PRODUCT SPECIFICATIONS

Host	Rat
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	MR5D3
Form/Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised
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: Maximum Dilution: Neat; 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. For better results an overnight incubation at 4 degree C is recommended
Reconstitution	Reconstitute with 1 ml distilled water Perservative Stabilisers
Buffer Solution	Phosphate buffered saline
Target Species	Mouse
Preparation and Storage	Store at 4 degree C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 12 months from date of reconstitution.



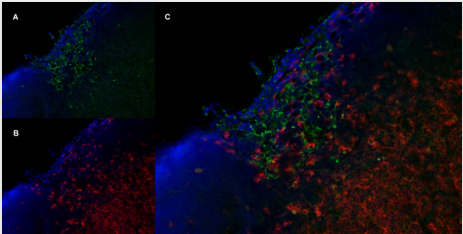
Application Data

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



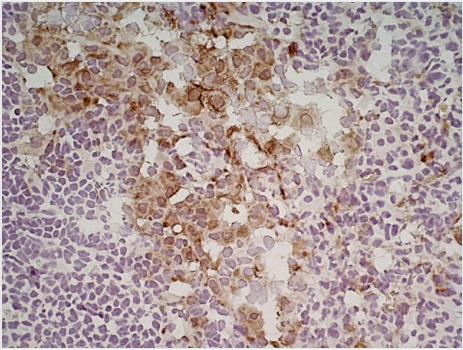
Application Data

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/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.



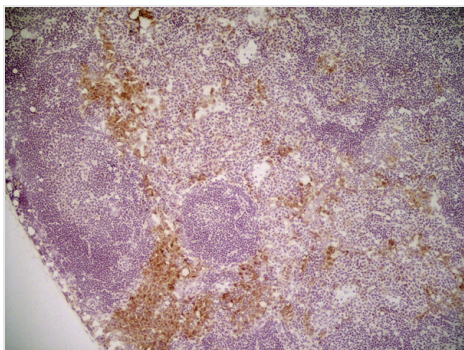
Application Data

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



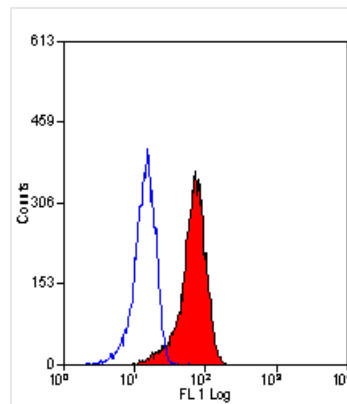
Application Data

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/12124>