

Mouse CD68 Monoclonal Antibody | anti-CD68 antibody

MOUSE ANTI RAT CD68

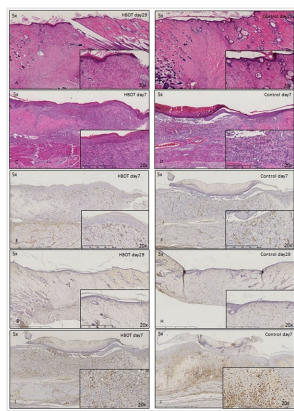
CATALOG #	HOST	APPLICATIONS
AAA12149	Mouse	Immunohistochemistry, Flow Cytometry, Functional Assay, Immunofluorescence, Immunoprecipitation, Immunohistochemistry

PRODUCT SYNONYMS

CD68; Monoclonal Antibody; MOUSE ANTI RAT CD68; anti-CD68 antibody

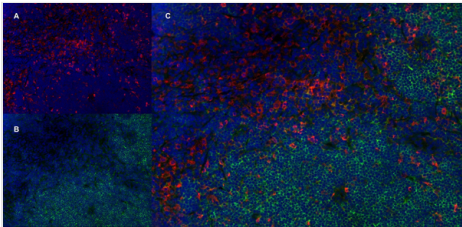
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	ED1
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 0.5 mg/ml (varies by lot)
Sequence Length	330
Applicable Applications for anti-CD68 antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IP (Immunoprecipitation), IHC (Immunohistochemistry)
Application Notes	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul. Western Blot: This clone is suitable for use in western blotting applications. Flow Cytometry: Minimum Dilution: 1/50; Maximum Dilution: 1/100; Application Note: Membrane permeabilisation is required for this application. We recommends the use of Leucoperm for this purpose. Immunohistology - Paraffin: Application Note: This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase
Perservative Stabilisers	0.09% Sodium Azide Preparation
Buffer Solution	Phosphate buffered saline
Target Species	Rat
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.



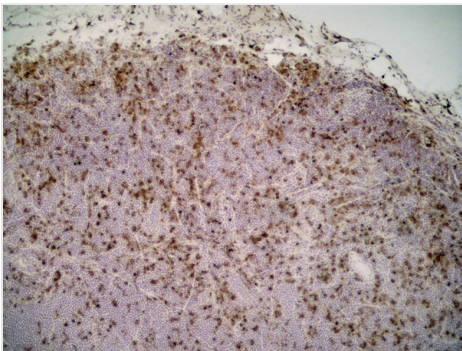
Application Data

Published customer image: Histological staining of control and HBOT wounds at post-wounding days 7 and 29. A -D) H&E staining. E -H) CD34 immunohistochemistry. I-J) CD68 immunohistochemistry. From: uk B, Tong M, Fijneman EMG, van Neck JW (2014) Hyperbaric Oxygen Therapy to Treat Diabetes Impaired Wound Healing in Rats. PLoS ONE 9(10): e108533.



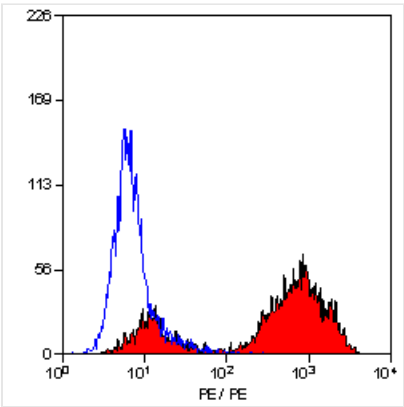
Application Data

Immunofluorescence staining of rat lymph node cryosection with Mouse anti Rat CD68 antibody , red in A and Mouse anti Rat CD4 , green in B. C is the merged image with nuclei counter-stained blue using DAPI. Medium power



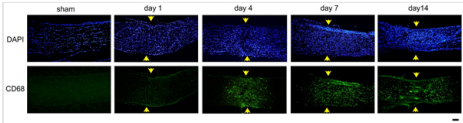
Application Data

Immunoperoxidase staining of rat lymph node cryosection with Mouse anti Rat CD68 antibody followed by horseradish peroxidase conjugated Goat anti Mouse IgG1 as a detection reagent. Low power



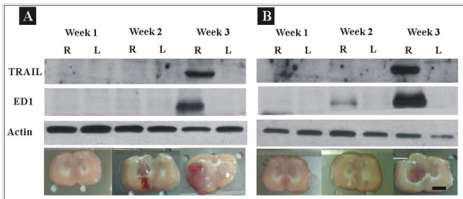
Application Data

Staining of rat peritoneal macrophages cells with Mouse anti Rat CD68:RPE . Permeabilised with Leucoperm (Fix & Perm)



Application Data

Published customer image: Immunohistochemical stains of ED1 and TRAIL in brain sections treated with AAV2/IL1. Immunohistochemistry for CD68 in the optic nerve. There is a cellular accumulation indicated by DAPI at the crushed sites of the optic nerve. Some of the cells are positively stained with CD68 suggesting that there is a recruitment of microglia/macrophages to the crushed sites. Bar = 100 um. From: Suzuki H, Oku H, Horie T, Morishita S, Tonari M, et al. (2014) Changes in Expression of Aquaporin-4 and Aquaporin-9 in Optic Nerve after Crushing in Rats. PLoS ONE 9(12): e114694.



Application Data

Published customer image: Western blotting of ED1 (Marker of activated microglia) and TRAIL (tumor necrosis factor-related apoptosis-inducing ligand). Brains were treated with PBS or rAAV2/IL12 and then implanted with tumor on the last day of Week 2 post viral vector injection. The brains were used for Western blotting analysis of the expression of ED1, 34 kDa, and TRAIL, 104 kDa, from microglial cells on the last day of week 1, 2, and 3 following tumor implantation. The brain slices for Western blotting analysis are shown at the bottom. All brains were harvested on the last day of week 1, week 2, and week 3 post tumor implantation. The scale bars indicate 2 mm in brain sections. From: The treatment of glioblastoma multiforme through activation of microglia and TRAIL induced by rAAV2-mediated IL-12 in a syngeneic rat model. Chiu TL, Wang MJ, Su CC. J Biomed Sci. 2012 Apr 22;19:45. doi: 10.1186/1423-0127-19-45.

NCBI AND UNIPROT INFORMATION

NCBI GI #	72255507
NCBI GeneID	287435
NCBI Accession #	NP_001026808.1
NCBI GenBank Nucleotide #	NM_001031638.1
NCBI Official Full Name	macrosialin

NCBI Official Synonym Full Names	Cd68 molecule
NCBI Official Symbol	Cd68
NCBI Protein Information	macrosialin; CD68 antigen

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/cd68-antibody-clone-ed1-immunohistochemistry-flow-cytometry-immunofluorescence-immunoprecipitation-immunohistochemistry-elisa/12149>