

Rat CD68 Monoclonal Antibody | anti-CD68 antibody

RAT ANTI MOUSE CD68:FITC

CATALOG # AAA49076	HOST Rat	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD68; Monoclonal Antibody; RAT ANTI MOUSE CD68:FITC; MACROSIALIN; anti-CD68 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	FA-11
Specificity	Rat anti Mouse CD68 antibody, clone FA-11 recognizes mouse macrosialin, a heavily glycosylated transmembrane protein and murine homolog of human CD68, which is classified as a unique scavenger receptor (ScR) family member, due to the presence of a lysosome associated membrane protein (LAMP)-like domain. CD68 is considered a pan macrophage marker, predominantly expressed on the intracellular lysosomes of tissue macrophages/monocytes, including Kupffer cells, microglia, histiocytes and osteoclasts, and is expressed to a lesser extent by dendritic cells and peripheral blood granulocytes. CD68 is expressed by many tumor types including some B cell lymphomas, blastic NK lymphomas, melanomas, granulocytic (myeloid) sarcomas, hairy cell leukemias, and renal, urinary and pancreatic tumors, and can be used in cancer studies to demonstrate the presence/localization of macrophages. Rat anti mouse CD68 antibody, clone FA-11, has been used in many mouse models for the identification of CD68 in immunohistochemical studies, using both frozen and paraffin-embedded tissues (Masaki et al. 2003) and (Devey et al. 2009). Rat anti mouse CD68 antibody, clone FA-11 can be used in flow cytometry to detect intracellular CD68, following permeabilization, and can detect surface macrosialin at low levels in resident mouse peritoneal macrophages which can be enhanced with thioglycollate stimulation.
Form/Format	FITC; Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 - liquid
Concentration	Approx. IgG concentration - 0.1mg/ml (varies by lot)
Sequence Length	318
Applicable Applications for anti-CD68 antibody	FCM/FACS (Flow Cytometry)
Perservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Immunogen	Purified Concanavalin A acceptor glycoprotein from P815 cell line
Max Ex/Em	FLuorophore - FITC Excitation Max (nm) - 490 Emission Max (nm) - 525
Buffer Solution	Phosphate buffered saline
Target Species	Mouse

Preparation and Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed and keep aliquots at 2-8°C for short term use (up to 4 weeks). Store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6753352
NCBI GeneID	12514
NCBI Accession #	NP_033983.1
NCBI GenBank Nucleotide #	NM_009853.1
NCBI Official Synonym Full Names	CD68 antigen
NCBI Official Symbol	Cd68
NCBI Official Synonym Symbols	Lamp4; gp110; Scard1
NCBI Protein Information	macrosialin
UniProt Protein Name	Macrosialin
UniProt Gene Name	Cd68
UniProt Entry Name	CD68_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/cd68-antibody-clone-fa-11-flow-cytometry-elisa/49076>