

ARG22840 anti-CD68 antibody [FA-11] (Biotin)

Package: 50 µg
Store at: 4°C

Summary

Product Description	Biotin-conjugated Rat Monoclonal antibody [FA-11] recognizes CD68 CD68 antibody, clone FA-11 ^Å recognizes mouse macroscialin which is a homolog of human CD68, which is classified as a unique scavenger receptor (ScR) family member. CD68 is considered a pan macrophage marker expressed on the intracellular lysosomes of tissue macrophages.
Tested Reactivity	Ms
Tested Application	IHC-Fr
Host	Rat
Clonality	Monoclonal
Clone	FA-11
Isotype	IgG2a
Target Name	CD68
Species	Mouse
Immunogen	Purified Concanavalin A acceptor glycoprotein from P815 cell line.
Conjugation	Biotin
Alternate Names	Macrosialin; CD antigen CD68; LAMP4; Gp110; GP110; SCARD1

Application Instructions

Application table	Application	Dilution
	IHC-Fr	Assay-dependent

Application Note	<p>FACS: Membrane permeabilisation is required for this application. Use 10 µl of the suggested working dilution to label 10⁶ cells in 100 µl.</p> <p>IHC-P: Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0). Staining has also been achieved without antigen retrieval.</p> <p>WB: Non-reducing conditions recommended.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>
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Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS, 0.09% Sodium azide and 1% BSA
Preservative	0.09% Sodium azide
Stabilizer	1% BSA
Concentration	0.1 mg/ml

Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	Cd68
Gene Full Name	CD68 antigen
Background	CD68 is a 110-kD transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. It is a member of the lysosomal/endosomal-associated membrane glycoprotein (LAMP) family. The protein primarily localizes to lysosomes and endosomes with a smaller fraction circulating to the cell surface. It is a type I integral membrane protein with a heavily glycosylated extracellular domain and binds to tissue- and organ-specific lectins or selectins. The protein is also a member of the scavenger receptor family. Scavenger receptors typically function to clear cellular debris, promote phagocytosis, and mediate the recruitment and activation of macrophages. Alternative splicing results in multiple transcripts encoding different isoforms. [provided by RefSeq, Jul 2008]
Function	CD68 could play a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. Binds to tissue- and organ-specific lectins or selectins, allowing homing of macrophage subsets to particular sites. Rapid recirculation of CD68 from endosomes and lysosomes to the plasma membrane may allow macrophages to crawl over selectin-bearing substrates or other cells. [UniProt]
Highlight	<p>Related products:</p> <p>CD68 antibodies; CD68 Duos / Panels; Anti-Rat IgG secondary antibodies;</p> <p>Related news:</p> <p>New antibody panels and duos for Tumor immune microenvironment</p> <p>Tumor-Infiltrating Lymphocytes (TILs)</p> <p>Exploring Antiviral Immune Response</p> <p>Anti-SerpinB9 therapy, a new strategy for cancer therapy</p> <p>RIP1 activation and pathogenesis of NASH</p>
Research Area	Immune System antibody; Activated Macrophage/Microglia Study antibody; Neuroinflammation Study antibody; Active macroglial Marker antibody; M1/M2/TAM Marker antibody; Macrophage Marker antibody; M1 macrophage Marker antibody; Inflammatory Cell Marker antibody
Calculated Mw	37 kDa
PTM	N- and O-glycosylated.