

CD68 Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1917a

Product Information

Application Primary Accession Reactivity Host Clonality Clone Names Isotype Calculated MW Description	 WB, FC, E P34810 Human Mouse Monoclonal 3F7C6 IgG1 37408 This gene encodes 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.
Immunogen	Purified recombinant fragment of human CD68 (AA: 42-155) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Gene ID	968
Other Names	Macrosialin, Gp110, CD68, CD68
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CD68 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD68
Function	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.
Cellular Location	[Isoform Short]: Cell membrane; Single-pass type I membrane protein
Tissue Location	Highly expressed by blood monocytes and tissue macrophages. Also expressed in lymphocytes, fibroblasts and endothelial cells. Expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium, facilitating their dissemination to secondary sites.

Background

This gene encodes a member of the intermediate filament protein family and is expressed primarily in nerve cells. ; ;

References

1. Rom J Morphol Embryol. 2012;53(1):61-6. 2. Anticancer Res. 2009 Aug;29(8):3269-79.

Images



Figure 3: Flow cytometric analysis of Jurkat cells using CD68 mouse mAb (green) and negative control (red).



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