CD68 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD68, Monoclonal Antibody
Full Product Name	CD68
Product Gene Name	anti-CD68 antibody
Product Synonym Names	Macrosialin; Gp110
Clonality	Monoclonal
Isotype	IgG1
Clone Number	F7-C6
Host	Mouse
Species Reactivity	Human
Purity/Purification	ProA affinity purified
Preparation and Storage	Aliquot and store at-20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	34,654 Da
OMIM	153634
3D Structure	ModBase 3D Structure for P34810
Immunogen	Recombinant Protein
Storage Buffer	1*TBS (pH7.4), 1% BSA.
Preservative	0.14% Sodium Azide.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD68 antibody	Western Blot (WB), Flow Cytometry (FC/FACS)
Related Product Information for anti-CD68 antibody	MBS8533471 is an antibody targeting CD68. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-CD68 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD68. It may not necessarily be applicable to this product.

NCBI GI #	91199550
NCBI GeneID	968
NCBI Accession #	NP_001035148.1
UniProt Primary Accession #	P34810
UniProt Secondary Accession #	Q53HR6; Q53XI3; Q96BI7; B4DVT4
UniProt Related Accession #	P34810

GenBank Nucleotide #	NM_001040059.1
NCBI Official Full Name	macrosialin isoform B
NCBI Official Synonym Full Names	CD68 molecule
NCBI Official Symbol	CD68
NCBI Official Synonym Symbols	GP110; LAMP4; SCARD1
UniProt Protein Name	Macrosialin
UniProt Synonym Protein Names	Gp110; CD_antigen: CD68
Protein Family	Macrosialin
UniProt Gene Name	CD68
NCBI Protein Information	macrosialin
NCBI Summary for CD68	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. [provided by RefSeq, Jul 2008]
UniProt Comments for 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.CautionCD68 is a commonly used marker for macrophages. However, a number of studies (PubMed:15194571, PubMed:15647451 and PubMed:18405323) have shown that CD68 antibodies react with other hematopoietic and non-hematopoietic cell types, suggesting that CD68 may not be a macrophage-specific antigen.
Research Articles on CD68	**1.** This study shown the CD68 expression in Microglia and Astrocytes in stroke, Alzheimer's disease, and Lewy body dementia.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/cd68/8533471