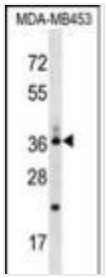
CD68 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD68, Polyclonal Antibody
Full Product Name	CD68, ID (DKFZp686M18236, GP110, Macrophage Antigen CD68, Macrosialin, Scavenger Receptor Class D Member 1, SCARD1) (PE)
Product Gene Name	anti-CD68 antibody
Product Synonym Names	CD68; kpi; Macrosialin; Gp110
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human CD68.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	34,654 Da
OMIM	153634
3D Structure	ModBase 3D Structure for P34810
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 209-237 in the central region of human CD68/CD68 (kpi),
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CD68 antibody	Antibodies; Receptors; Scavenger
Applications Tested/Suitable for anti-CD68 antibody	Western Blot (WB), FLISA
Application Notes for anti-CD68 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CD68 antibody	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.

Product References and Citations for anti-CD68 antibody	1. Leonarduzzi, G., et al. Mol Nutr Food Res 54 SUPPL 1, S31-S41 (2010). 2. Strojnik, T., et al. Anticancer Res. 29(8):3269-3279(2009). 3. Sayed, S., et al. Eur J Vasc Endovasc Surg 38(1):20-25(2009). 4. Suzuki, Y., et al. Int J Rheum Dis 12(1):7-13(2009). 5. Chen, W.S., et al. Scand. J. Rheumatol. 38(2):154-155(2009).
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.
Searchable Terms for CD68 purchase	MBS6283378 is an antibody targeting CD68. Also known as CD68, ID (DKFZp686M18236, GP110, Macrophage Antigen CD68, Macrosialin, Scavenger Receptor Class D Member 1, SCARD1) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CD68 antibody
Western Blot analysis of MDA-MB453 cell line lysates (35ug/lane) using 033530. This demonstrates the 033530 detected the CD68/CD68 (kpi) protein (arrow).

ADDITIONAL DETAILS

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

NCBI GI #	91199548
NCBI GeneID	968
NCBI Accession #	NP_001242.2
NCBI Related Accession #	NP_001035148.1
UniProt Primary Accession #	P34810
UniProt Secondary Accession #	Q53HR6; Q53XI3; Q96BI7; B4DVT4
UniProt Related Accession #	P34810
GenBank Nucleotide #	NM_001251.2
NCBI Official Full Name	macrosialin isoform A
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
Protein Family	Macrosialin
UniProt Gene Name	CD68
UniProt Entry Name	CD68_HUMAN
NCBI Protein Information	macrosialin; CD68 antigen; macrophage antigen CD68; scavenger receptor class D, member 1

UniProt Comments for CD68	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. Belongs to the LAMP family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell surface; Membrane protein, integral Chromosomal Location of Human Ortholog: 17p13 Cellular Component: membrane; lysosomal membrane; plasma membrane; integral to membrane; endosome membrane
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/polyclonal-human-antibody/cd68/6283378