CD68 / Macrosialin (CD68) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD68 / Macrosialin, Recombinant Protein
Full Product Name	Human CD68 / Macrosialin Recombinant Protein
Product Gene Name	CD68 recombinant protein
Product Synonym Names	Macrosialin; Gp110; CD68
Host	E Coli
Form/Format	Liquid; 50mM NaH2PO4, 500mM NaCl Buffer with 500mM Imidazole, 10% Glycerol (PH8.0)
Purity/Purification	>95% by SDS-PAGE
Concentration	Reconstitution Dependent (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freezing and thawing.
Molecular Weight	12.87
OMIM	153634
3D Structure	ModBase 3D Structure for P34810
Species	Human
Tag	His
Entry 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.
Applications Tested/Suitable for CD68 recombinant protein	ELISA (EIA), Western Blot (WB), Antigen Protein (AP), Protein Array
Related Product Information for CD68 recombinant protein	MBS2903312 is a recombinant protein targeting CD68. Also known as Human CD68 / Macrosialin Recombinant Protein. Host: E Coli.
Other Notes	Small volumes of CD68 recombinant protein 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 #	298665
NCBI GeneID	968
NCBI Accession #	AAB25811.1
UniProt Primary Accession #	P34810
UniProt Related Accession #	P34810
NCBI Official Full Name	CD68
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
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	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
Research Articles on CD68	**1.** The tissue expressions of CD68 and CXCR4 in non-small cell lung cancer tissues were significantly correlated with a higher TNM staging and lymph node metastasis ($p<0.05$); and the expression of CD68 was positively correlated with the expression of CXCR4 ($r=0.461$, $p=0.000$).
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