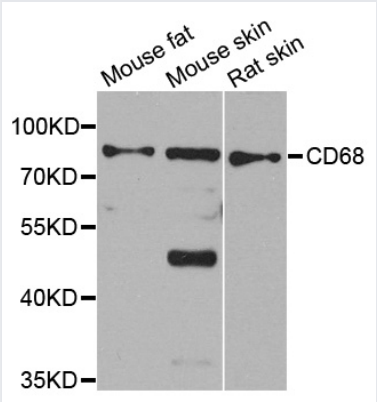
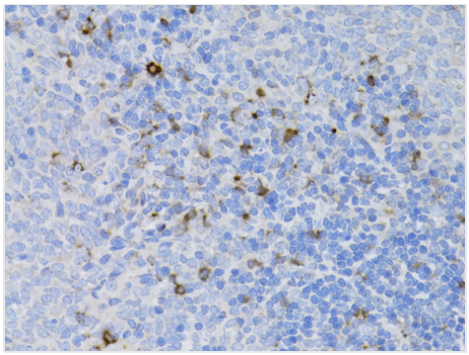
CD68 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

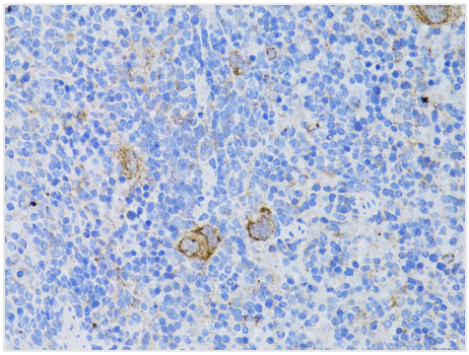
Product Name	CD68, Polyclonal Antibody
Full Product Name	CD68 Polyclonal Antibody
Product Gene Name	anti-CD68 antibody
Product Synonym Names	CD 68; CD68; CD68 antigen; CD68 molecule; CD68; DKFZp686M18236; gp11; Gp110; LAMP4; Macrophage antigen CD68 (microsialin); MACROPHAGE ANTIGEN CD68; Macrosialin; SCARD1; Scavenger receptor class D member 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity Purification
Concentration	1 mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated: 31kDa; 34kDa; 37kDa Observed: 85kDa
3D Structure	ModBase 3D Structure for P34810
Immunogen	Recombinant protein of human CD68
Conjugation	Unconjugated
Product Categories/Family for anti-CD68 antibody	Cancer; Immunology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD68 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CD68 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
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.
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	MBS2554908 is an antibody targeting CD68. Also known as CD68 Polyclonal Antibody. Reactive in Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CD68 antibody
Western blot analysis of extracts of various cell lines, using CD68 antibody.



Immunohistochemistry (IHC) of anti-CD68 antibody
Immunohistochemistry of paraffin-embedded rat spleen using CD68 antibody.



Immunohistochemistry (IHC) of anti-CD68 antibody
Immunohistochemistry of paraffin-embedded mouse spleen using CD68 antibody.

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

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.** Combined detection of tumor-associated macrophages markers, CD68 and Sema4D, in gastric carcinoma tissue shows potential to predict the trend of gastric carcinoma progression.
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.
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