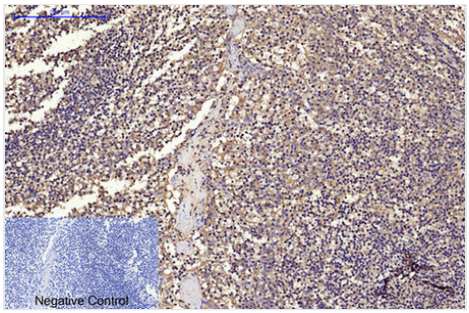
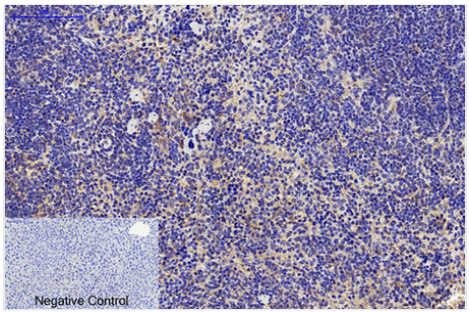
CD68 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

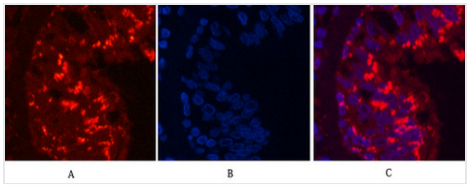
Product Name	CD68, Monoclonal Antibody
Full Product Name	CD68 (9H5) Mouse mAb
Product Gene Name	anti-CD68 antibody
Product Synonym Names	CD68 antigen; Macrophage antigen CD68 (microsialin); GP110
Clonality	Monoclonal
Isotype	IgG1
Clone Number	9H5-7F9-1B9
Host	Mouse
Species Reactivity	Human, Mouse
Form/Format	PBS, pH7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.
Purity/Purification	Affinity purified
Specificity	The antibody detects endogenous CD68 proteins.
Preparation and Storage	Store at 4 degree C for short term. Store at -20 degree C for long term. Avoid freeze/thaw cycle.
Molecular Weight	37,408 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (7482805..7485429). Location: 17p13
OMIM	153634
3D Structure	ModBase 3D Structure for P34810
Immunogen	Synthetic Peptide of CD68
Conjugation	Unconjugated
Modification	Unmodified
Cell Position	Cell membrane, Endosome, Lysosome, Membrane
Product Categories/Family for anti-CD68 antibody	Primary antibody
Applications Tested/Suitable for anti-CD68 antibody	Immunohistochemistry-Paraffin (IHC-P), Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-CD68 antibody	IHC: 1:200 FC/FACS: 1:50-200
Related Product Information for anti-CD68 antibody	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.
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	MBS4753803 is an antibody targeting CD68. Also known as CD68 (9H5) Mouse mAb. Reactive in Human, Mouse. Host: Mouse.



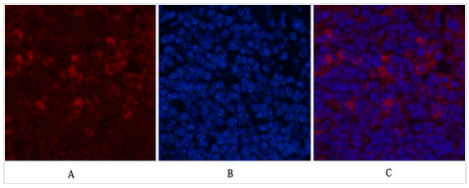
Immunohistochemistry (IHC) of anti-CD68 antibody
Immunohistochemical analysis of paraffin-embedded Human-Tonsil tissue. 1,CD68 Monoclonal Antibody(6F3) was diluted at 1:200(4 degree C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98 degree C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



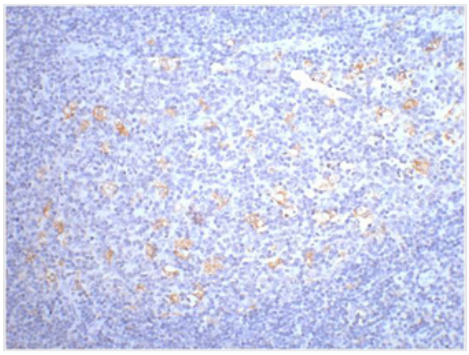
Immunohistochemistry (IHC) of anti-CD68 antibody
Immunohistochemical analysis of paraffin-embedded Mouse-liver tissue. 1,CD68 Monoclonal Antibody(6F3) was diluted at 1:200(4 degree C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98 degree C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunofluorescence (IF) of anti-CD68 antibody
Immunofluorescence analysis of Human-lung-cancer tissue. 1,CD68 Monoclonal Antibody(6F3)(red) was diluted at 1:200(4 degree C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence (IF) of anti-CD68 antibody
Immunofluorescence analysis of Mouse-spleen tissue. 1,CD68 Monoclonal Antibody(6F3)(red) was diluted at 1:200(4 degree C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunohistochemistry (IHC) of anti-CD68 antibody
IHC staining of human tonsil tissue, diluted at 1:200.

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 Secondary Accession #	Q53HR6; Q53XI3; Q96BI7; B4DVT4
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; CD68 antigen; macrophage antigen CD68; scavenger receptor class D, member 1
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 marker CD68 might accurately predict early outcome of de novo cHL and could be used in combination with c-kit and TiA1 staining.
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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