

Rabbit Anti-CD68 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP52189**Specification**

Rabbit Anti-CD68 Polyclonal Antibody - Product Information

Application	IHC-P, IF, E
Primary Accession	P31996
Reactivity	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37 KDa
Physical State	Liquid
Immunogen	Recombinant human CD68 protein
Epitope Specificity	22-319/354
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Isoform Short: Cell membrane; Single-pass type I membrane protein. Isoform Long: Endosome membrane; Single-pass type I membrane protein. Lysosome membrane; Single-pass type I membrane protein. Belongs to the LAMP family.
SIMILARITY	N- and O-glycosylated
Post-translational modifications	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Important Note	

Background Descriptions

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]

Rabbit Anti-CD68 Polyclonal Antibody - Additional Information**Gene ID** 12514**Other Names**

Lamp4; gp11; Scard1; Macrosialin; CD68

Target/Specificity

Highly expressed by blood monocytes and tissue macrophages. Also expressed in lymphocytes, fibroblasts and endothelial cells. Expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium, facilitating their dissemination to secondary sites.

Dilution

IHC-P~1:100~1:500
IF~1:100~1:200
E~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Rabbit Anti-CD68 Polyclonal Antibody - Protein Information

Name Cd68

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.

Cellular Location

[Isoform Long]: Endosome membrane; Single-pass type I membrane protein. Lysosome membrane; Single-pass type I membrane protein

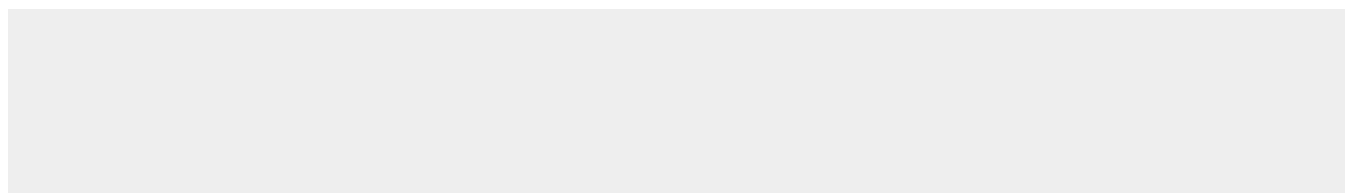
Tissue Location

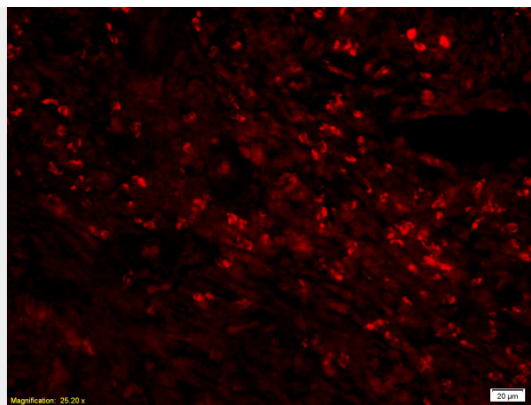
Expressed in tissue macrophages and to a lesser extent in dendritic cells

Rabbit Anti-CD68 Polyclonal Antibody - Protocols

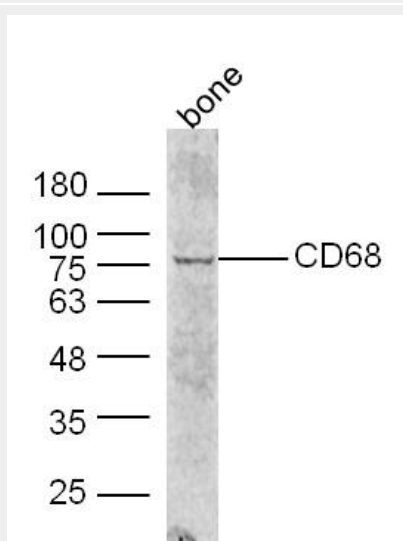
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

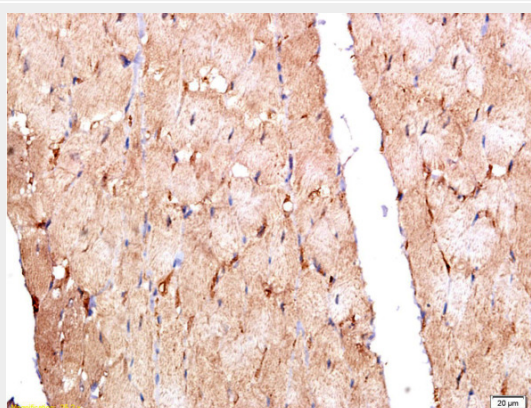
Rabbit Anti-CD68 Polyclonal Antibody - Images



Formalin-fixed and rat colitis tissue labeled with Anti-CD68 Polyclonal Antibody, Unconjugated AP52189 at 1:200 followed by conjugation to the secondary antibody, Goat Anti-Rabbit IgG, Cy5 conjugated,



Western blot analysis of extracts from Bone tissue(mouse) using CD68 Antibody.



Formalin-fixed and paraffin embedded rat myocardium labeled with Anti-CD68 Polyclonal Antibody, Unconjugated (AP52189) at 1:200 followed by conjugation to the secondary antibody and DAB staining.

Rabbit Anti-CD68 Polyclonal Antibody - Background

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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.

Rabbit Anti-CD68 Polyclonal Antibody - Citations

- [Glaucocalyxin A improves survival in bleomycin-induced pulmonary fibrosis in mice.](#)