



Rabbit Anti-CD68 antibody

SL0649R

Product Name:	CD68
Chinese Name:	CD68抗体
Alias:	CD 68; CD68 antigen; CD68 molecule; DKFZp686M18236; GP110; Macrophage antigen CD68 (microsialin); macrosialin; SCARD1; Scavenger receptor class D member 1; macrosialin isoform A precursor; CD68_MOUSE; Macrosialin; Gp110; scavenger receptor class D, member 1; macrophage antigen CD68; LAMP4.
文献引用 PubMed :	<p>Specific References(14) SL0649R has been referenced in 14 publications.</p> <p>[IF=3.73]Zeng, Wei-qun, et al. "A New Method to Isolate and Culture Rat Kupffer Cells." PLOS ONE 8.8 (2013): e70832.Rat. PubMed:23967115</p> <p>[IF=3.73]Chen, Liang, et al. "Electrospun Poly (L-lactide)/Poly (ε-caprolactone) Blend Nanofibrous Scaffold: Characterization and Biocompatibility with Human Adipose-Derived Stem Cells."PLOS ONE 8.8 (2013): e71265.IHC-P;Rat.</p> <p>[IF=4.35]Hong, Hye Kyoung, et al. "Neonatal systemic inflammation in rats alters retinal vessel development and simulates pathologic features of retinopathy of prematurity." Journal of Neuroinflammation 11.1 (2014): 87.IHC-F;Rat. PubMed:24886524</p> <p>[IF=2.46]Wang, Shan, et al. "5-Aminolevulinic Acid–mediated Sonodynamic Therapy Reverses Macrophage and Dendritic Cell Passivity in Murine Melanoma Xenografts." Ultrasound in Medicine & Biology (2014).IHC-P;Mouse. PubMed:25023114</p> <p>[IF=5.96]Savvatis, Konstantinos, et al. "Interleukin-6 receptor inhibition modulates the immune reaction and restores titin phosphorylation in experimental myocarditis." Basic</p>

Research in Cardiology 109.6 (2014): 1-14.**IHC-P;Mouse.**

[PubMed:25344085](#)

[IF=3.33]Xiao, Ke, et al. "The role of visfatin on the regulation of inflammation and apoptosis in the spleen of LPS-treated rats." Cell and Tissue Research (2014).**WB;Rat.**

[PubMed:25358398](#)

[IF=3.53]Bang, Mi-Ae, et al. "Bacillus subtilis KCTC 11782BP-Produced Alginate Oligosaccharide Effectively Suppresses Asthma via T-Helper Cell Type 2-Related Cytokines." PLoS one 10.2 (2014): e0117524-e0117524.**IHC-P;Mouse.**

[PubMed:25658604](#)

[IF=4.20]Shang, Qianwen, et al. "Delivery of Adipose-derived Stem Cells Attenuates Adipose Tissue Inflammation and Insulin Resistance in Obese Mice through Remodeling Macrophage Phenotypes." Stem Cells and Development (2015).**IHC-P;Mouse.**

[PubMed:25923535](#)

[IF=4.01]Xu, Xiaoyang, et al. "Lysosomal cholesterol accumulation in macrophages leading to coronary atherosclerosis in CD38^{+/+} mice." Journal of Cellular and Molecular Medicine (2016).**IHC-F;Mouse.**

[PubMed:26818887](#)

[IF=3.23]Kang, Yea Eun, et al. "The Roles of Adipokines, Proinflammatory Cytokines, and Adipose Tissue Macrophages in Obesity-Associated Insulin Resistance in Modest Obesity and Early Metabolic Dysfunction." PLOS ONE 11.4 (2016): e0154003.**IHC-P;Human.**

[PubMed:27101398](#)

[IF=4.94]Xu, Xiaoyang, et al. "Simvastatin promotes NPC1-mediated free cholesterol efflux from lysosomes through CYP7A1/LXR α signalling pathway in oxLDL-loaded macrophages." Journal of Cellular and Molecular Medicine (2016).**IF(ICC);Mouse.**

[PubMed:27629819](#)

[IF=0.00]Stark, Christoffer, et al. "Thymosin beta 4 treatment improves left ventricular function after myocardial infarction and is related to Up-regulation of chitinase 3-like-1 in mice." Translational Medicine Communications 1.1 (2016): 8.**IHC-P;Mouse.**

[PubMed:0](#)

[IF=5.23]Ganguly, Rituparna, et al. "Oral chromium picolinate impedes hyperglycemia-

	<p>induced atherosclerosis and inhibits proatherogenic protein TSP-1 expression in STZ-induced type 1 diabetic ApoE^{0/0} mice." Scientific Reports 7 (2017).IHC-P;Mouse.</p> <p style="text-align: center;">PubMed:28345659</p> <p>[IF=3.25]Kugo, Hirona, et al. "Suppressive effects of dietary EPA-rich fish oil on the degradation of elastin fibers in the aortic wall in nicotine-administered mice." Food & Function (2017).IHC-F;Mouse.</p> <p style="text-align: center;">PubMed:28725903</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestICC=1:100-500IF=1:200-800 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	37kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse CD68:21-120/335<Extracellular>
Isotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	<p>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].</p> <p>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</p>

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.

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.

Tissue 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.

Similarity:

Belongs to the LAMP family.

SWISS:

P31996

Gene ID:

12514

Database links:

[Entrez Gene: 968](#)Human

[Entrez Gene: 12514](#)Mouse

[Olim: 153634](#)Human

[SwissProt: P34810](#)Human

[SwissProt: P31996](#)Mouse

[Unigene: 647419](#)Human

[Unigene: 15819](#)Mouse

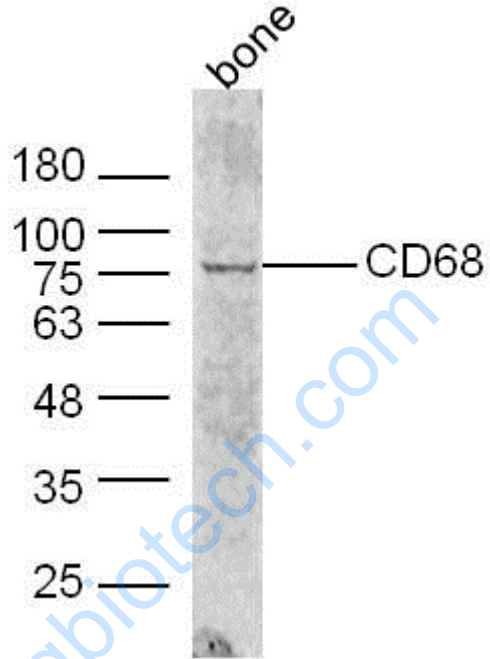
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

CD68为巨噬细胞抗原又称酸性溶霉菌glycoprotein, 表达在单核、巨嗜、粒细胞和一些梭形细胞呈阳性表达。C该抗体对于鉴定组织切片中的巨噬细胞具有重要作用。

它能够鉴定多种组织中的巨噬细胞，包括脾脏红髓、肠道固有层、肺泡、骨髓中的枯否细胞和巨噬细胞。也能够识别骨髓前体细胞，外周血粒细胞以及浆细胞样T细胞。

Picture:



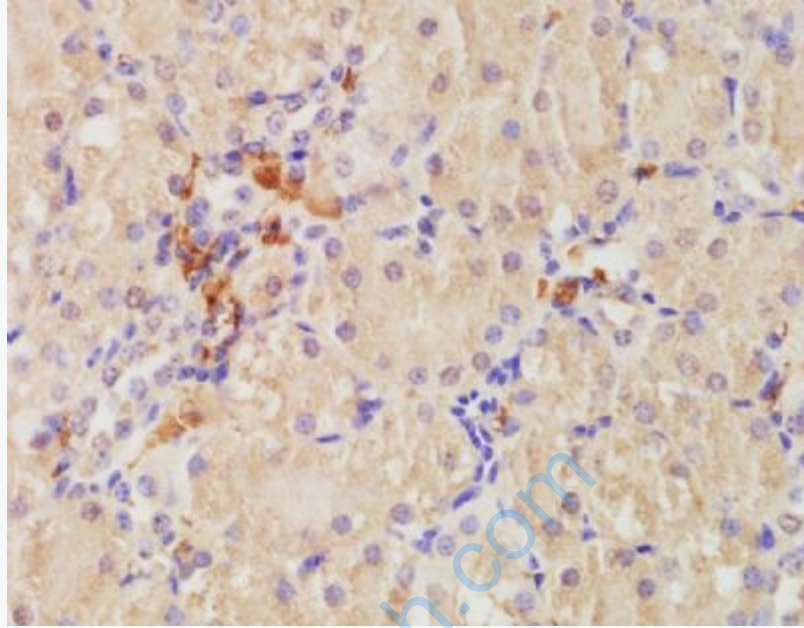
Sample: Bone (Mouse) Lysate at 40 ug

Primary: Anti-CD68 (SL0649R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/10000 dilution

Predicted band size: 37 kD

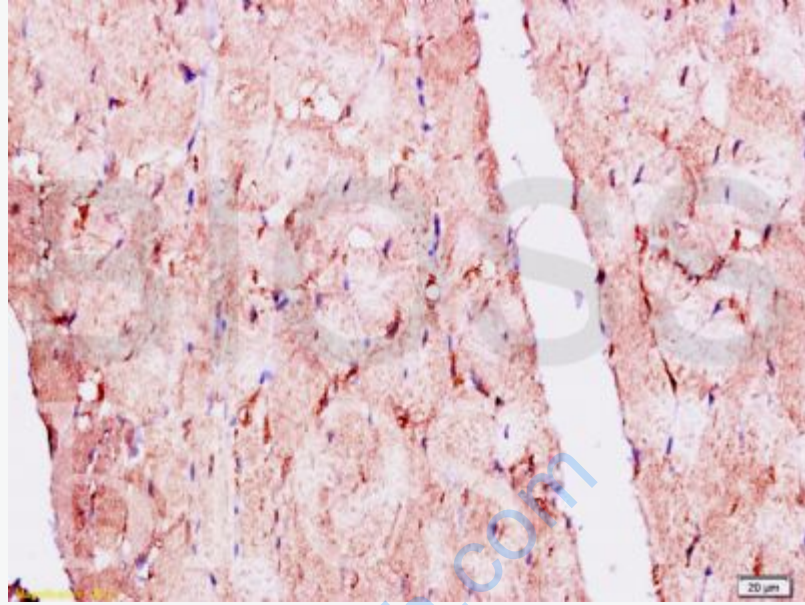
Observed band size: 76 kD



Tissue/cell: mouse kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

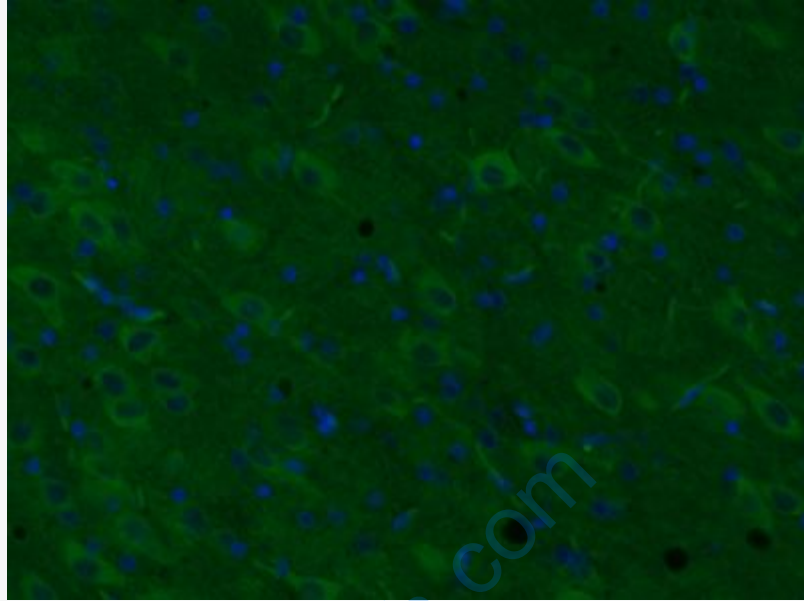
Incubation: Anti-CD68 Polyclonal Antibody, Unconjugated(SL0649R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat myocardium tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CD68 Polyclonal Antibody, Unconjugated(SL0649R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD68) Polyclonal Antibody, Unconjugated (SL0649R) at 1:400 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (SL0649R) for 90 minutes, and DAPI for nuclei staining.