SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-CD68/FITC Conjugated antibody

Catalog Number: SL1432R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-CD68/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human CD68 (21-70aa)
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat
Subcellular Location:	The cell membrane
Background:	background: 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]. **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,

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	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. **Post-translational modifications:** N- and O-glycosylated **Similarity:** Belongs to the LAMP family. **Database links:** **Entrez Gene:** 968 Human **Entrez Gene:** 12514 Mouse Omim: 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. macrophagesMaker CD68 is a macrophage antigen also known as acid lysosomal glycoprotein, expressed in monocytes, macrophages, granulocytes and some spindle cells with positive expression.

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[VALIDATION IMAGES]

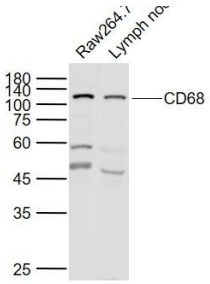


Figure 1. Sample: Lane 1: Raw264.7 (Mouse) Cell Lysate at 30 ug Lane 2: Lymph node (Rat) Cell Lysate at 30 ug Primary: Anti-CD68 (SL1432R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 37 kD Observed band size: 110 kD

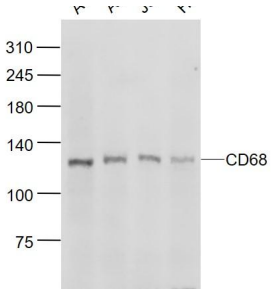


Figure 2. Sample: Lane 1: A431 (Human) Cell Lysate at 30 ug Lane 2: A549 (Human) Cell Lysate at 30 ug Lane 3: Jurkat (Human) Cell Lysate at 30 ug Lane 4: Huvec (Human) Cell Lysate at 30 ug Primary: Anti-CD68 (SL1432R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 37 kD Observed band size: 110 kD

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