

CD68/CD68 (kpi) Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17393C

Product Information

Application	WB, E
Primary Accession	P34810
Other Accession	NP_001242.2 , NP_001035148.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36354
Calculated MW	37408
Antigen Region	209-237

Additional Information

Gene ID	968
Other Names	Macrosialin, Gp110, CD68, CD68
Target/Specificity	This CD68/CD68 (kpi) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 209-237 amino acids from the Central region of human CD68/CD68 (kpi).
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CD68/CD68 (kpi) Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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 Short]: Cell membrane; Single-pass type I membrane protein
Tissue Location	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.

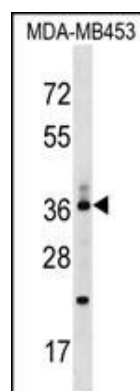
Background

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.

References

Leonarduzzi, G., et al. Mol Nutr Food Res 54 SUPPL 1, S31-S41 (2010) :
Strojnik, T., et al. Anticancer Res. 29(8):3269-3279(2009)
Sayed, S., et al. Eur J Vasc Endovasc Surg 38(1):20-25(2009)
Suzuki, Y., et al. Int J Rheum Dis 12(1):7-13(2009)
Chen, W.S., et al. Scand. J. Rheumatol. 38(2):154-155(2009)

Images



CD68/CD68 (kpi) Antibody (Center) (Cat. #AP17393c)
western blot analysis in MDA-MB453 cell line lysates
(35ug/lane). This demonstrates the CD68/CD68 (kpi)
antibody detected the CD68/CD68 (kpi) protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.