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CD68/CD68 (kpi) Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17393C

Specification

CD68/CD68 (kpi) Antibody (Center) - 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**
Calculated MW	**37408**
Antigen Region	**209-237**

CD68/CD68 (kpi) Antibody (Center) - 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

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.

CD68/CD68 (kpi) Antibody (Center) - 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

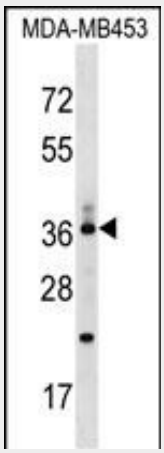
Tissue Location
Highly expressed by blood monocytes and tissue macrophages. Also expressed in lymphocytes, fibroblasts and endothelial cells. Expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium, facilitating their dissemination to secondary sites.

CD68/CD68 (kpi) Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD68/CD68 (kpi) Antibody (Center) - 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).

CD68/CD68 (kpi) Antibody (Center) - 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.

CD68/CD68 (kpi) Antibody (Center) - 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)