10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

CD68/CD68 (kpi) Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP17393c

Specification

CD68/CD68 (kpi) Antibody (Center) Blocking Peptide - Product Information

Primary Accession P34810

CD68/CD68 (kpi) Antibody (Center) Blocking Peptide - Additional Information

Gene ID 968

Other Names
Macrosialin, Gp110, CD68, CD68

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

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

CD68/CD68 (kpi) Antibody (Center) Blocking Peptide - Background

This gene encodes a 110-kD transmembrane glycoprotein thatis highly expressed by human monocytes and tissue macrophages. Itis a member of the lysosomal/endosomal-associated membraneglycoprotein (LAMP) family. The protein primarily localizes tolysosomes and endosomes with a smaller fraction circulating to thecell surface. It is a type I integral membrane protein with aheavily glycosylated extracellular domain and binds to tissue-andorgan-specific lectins or selectins. The protein is also a memberof the scavenger receptor family. Scavenger receptors typicallyfunction to clear cellular debris, promote phagocytosis, andmediate the recruitment and activation of macrophages. Alternativesplicing results in multiple transcripts encoding differentisoforms.

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

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) Blocking Peptide - Protocols

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

- Blocking Peptides