

## CD106 Antibody (Center) Blocking Peptide

Synthetic peptide Catalog # BP14788c

### **Specification**

## CD106 Antibody (Center) Blocking Peptide - Product Information

Primary Accession

P19320

# CD106 Antibody (Center) Blocking Peptide - Additional Information

**Gene ID 7412** 

#### **Other Names**

Vascular cell adhesion protein 1, V-CAM 1, VCAM-1, INCAM-100, CD106, VCAM1, L1CAM

#### **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.

# CD106 Antibody (Center) Blocking Peptide - Protein Information

# Name VCAM1

### **Function**

Cell adhesion glycoprotein predominantly expressed on the surface of endothelial cells that plays an important role in immune surveillance and inflammation (PubMed:<a href="http://www.uniprot.org/citations/31310649" target="\_blank">31310649</a>). Acts as a major regulator of leukocyte adhesion to the endothelium through interaction with different types of integrins (PubMed:<a href="http://www.uniprot.org/citations/10209034" target="\_blank">10209034</a>). During inflammatory responses, binds ligands on the surface of activated endothelial cells to initiate the activation of calcium channels and the plasma membrane-associated small GTPase RAC1 leading to leukocyte transendothelial migration (PubMed:<a href="http://www.uniprot.org/citations/22970700" target="\_blank">22970700</a>). Serves also as a quality- control checkpoint for entry into bone marrow by providing a 'don't-eat-me' stamping in the context of major histocompatibility complex (MHC) class-I presentation (PubMed:<a href="http://www.uniprot.org/citations/35210567" target="\_blank">35210567</a>/a>).

#### **Cellular Location**

[Vascular cell adhesion protein 1]: Cell membrane; Single-pass type I membrane protein

### **Tissue Location**

Expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell



types in both normal and inflamed tissue

## CD106 Antibody (Center) Blocking Peptide - Protocols

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

Blocking Peptides

CD106 Antibody (Center) Blocking Peptide - Images

# CD106 Antibody (Center) Blocking Peptide - Background

This gene is a member of the Ig superfamily and encodes acell surface sialoglycoprotein expressed by cytokine-activated endothelium. This type I membrane protein mediates leukocyte-endothelial cell adhesion and signal transduction, andmay play a role in the development of artherosclerosis and rheumatoid arthritis. Two alternatively spliced transcripts encoding different isoforms have been described for this gene.

## CD106 Antibody (Center) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Beckers, M.M., et al. Eur. J. Intern. Med. 21(4):289-292(2010)Jin, C., et al. Coron. Artery Dis. 21(5):273-277(2010)Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010)Wang, Y., et al. Diabet. Med. 27(4):376-383(2010)