10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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:31310649). Acts as a major regulator of leukocyte adhesion to the endothelium through interaction with different types of integrins (PubMed:10209034). 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:22970700). 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:35210567).

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-activatedendothelium. This type I membrane protein mediatesleukocyte-endothelial cell adhesion and signal transduction, andmay play a role in the development of artherosclerosis andrheumatoid arthritis. Two alternatively spliced transcriptsencoding 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)