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

CD106 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14788c

Specification

CD106 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P19320
Other Accession	NP_001069.1, NP_542413.1
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**81276**
Antigen Region	**295-322**

CD106 Antibody (Center) - Additional Information

Gene ID 7412

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

Target/Specificity
This CD106 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 295-322 amino acids from the Central region of human CD106.

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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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
CD106 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CD106 Antibody (Center) - 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). Also serves 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

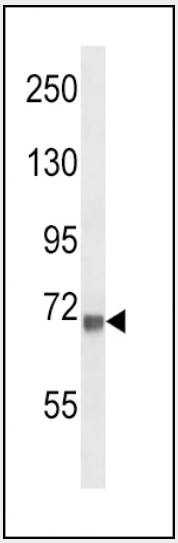
Tissue Location
Expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflamed tissue

CD106 Antibody (Center) - 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

CD106 Antibody (Center) - Images



CD106 Antibody (Center) (Cat. #AP14788c) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the CD106 antibody detected the CD106 protein (arrow).

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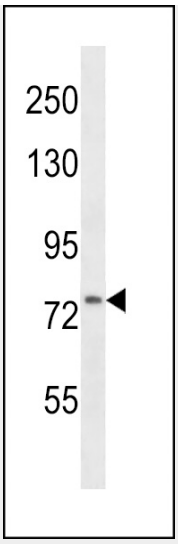

CD106 Antibody (Center) (Cat. #AP14788c) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the CD106 antibody detected the CD106 protein (arrow).

CD106 Antibody (Center) - Background

This gene is a member of the Ig superfamily and encodes a cell surface sialoglycoprotein expressed by cytokine-activated endothelium. This type I membrane protein mediates leukocyte-endothelial cell adhesion and signal transduction, and may 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) - 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)