

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

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](#)). 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

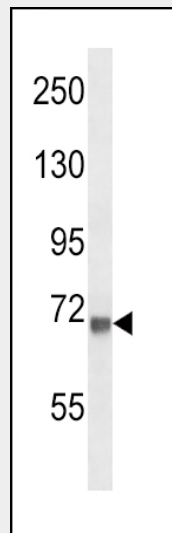
Expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflamed tissue

CD106 Antibody (Center) - Protocols

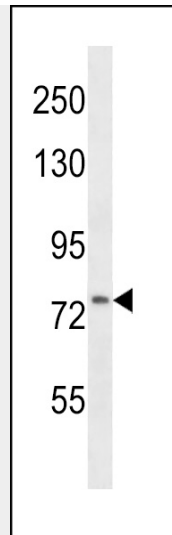
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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).



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 atherosclerosis 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)