

CD106 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51910**Specification**

CD106 Antibody - Product Information

Application	WB, E
Primary Accession	P19320
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81 KDa

CD106 Antibody - Additional Information**Gene ID** 7412**Other Names**

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

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

CD106 Antibody - 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](http://www.uniprot.org/citations/31310649)). Acts as a major regulator of leukocyte adhesion to the endothelium through interaction with different types of integrins (PubMed: [10209034](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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 - 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 - Images

CD106 Antibody - Background

Important in cell-cell recognition. Appears to function in leukocyte-endothelial cell adhesion. Interacts with integrin alpha-4/beta-1 (ITGA4/ITGB1) on leukocytes, and mediates both adhesion and signal transduction. The VCAM1/ITGA4/ITGB1 interaction may play a pathophysiologic role both in immune responses and in leukocyte emigration to sites of inflammation.

CD106 Antibody - References

Osborn L., et al. Cell 59:1203-1211(1989).
Polte T., et al. Nucleic Acids Res. 18:5901-5901(1990).
Hession C., et al. J. Biol. Chem. 266:6682-6685(1991).
Cybulsky M.I., et al. Proc. Natl. Acad. Sci. U.S.A. 88:7859-7863(1991).
Ota T., et al. Nat. Genet. 36:40-45(2004).