

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

**Specification**

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**CD106 Antibody - Product Information**

Application	<b>WB, E</b>
Primary Accession	<a href="#">P19320</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>81 KDa</b>

**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).