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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

Dilution
WB~~1:1000
E~~N/A

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). 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 - 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 - 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

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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).