

# CD106 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51910

## Product Information

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Application	WB
Primary Accession	<a href="#">P19320</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81276

## Additional Information

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Gene ID	7412
Other Names	Vascular cell adhesion protein 1, V-CAM 1, VCAM-1, INCAM-100, CD106, VCAM1, L1CAM
Dilution	WB~~1:1000
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

## Protein Information

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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: <a href="#">31310649</a> ). Acts as a major regulator of leukocyte adhesion to the endothelium through interaction with different types of integrins (PubMed: <a href="#">10209034</a> ). 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: <a href="#">22970700</a> ). 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: <a href="#">35210567</a> ).
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

## Background

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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.

## References

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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).  
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