

**VCAM1 / CD106 Antibody (clone 6G9)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS13207****Specification**

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**VCAM1 / CD106 Antibody (clone 6G9) - Product Information**

Application	IHC
Primary Accession	<a href="#">P19320</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	81kDa KDa

**VCAM1 / CD106 Antibody (clone 6G9) - Additional Information****Gene ID** 7412**Other Names**

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

**Target/Specificity**

Human VCAM1

**Reconstitution & Storage**

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

**Precautions**

VCAM1 / CD106 Antibody (clone 6G9) is for research use only and not for use in diagnostic or therapeutic procedures.

**VCAM1 / CD106 Antibody (clone 6G9) - 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:<<http://www.uniprot.org/citations/31310649>>31310649</a>). Acts as a major regulator of leukocyte adhesion to the endothelium through interaction with different types of integrins (PubMed:<<http://www.uniprot.org/citations/10209034>>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:<<http://www.uniprot.org/citations/22970700>>22970700</a>). 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:<<http://www.uniprot.org/citations/35210567>>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

### Volume

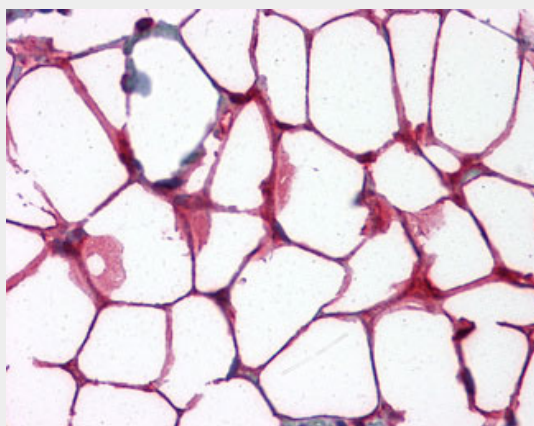
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## VCAM1 / CD106 Antibody (clone 6G9) - Protocols

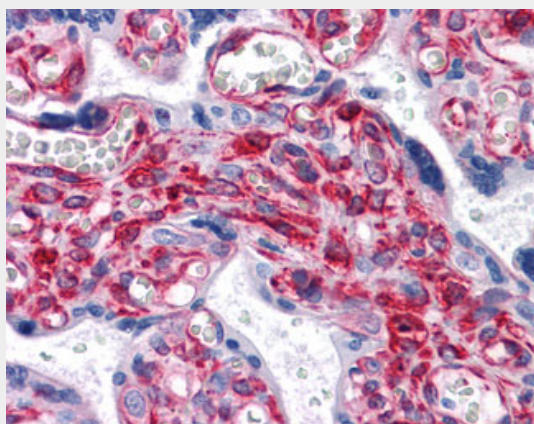
Provided below are standard protocols that you may find useful for product applications.

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

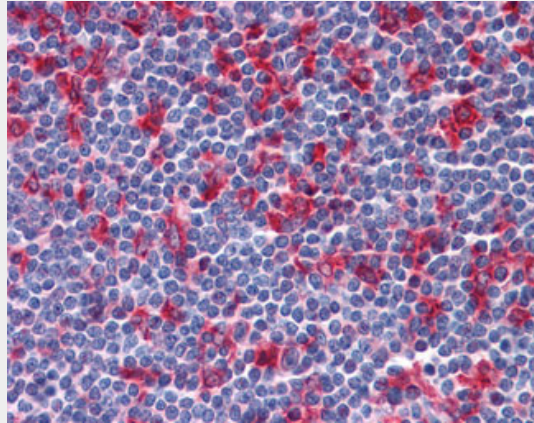
## VCAM1 / CD106 Antibody (clone 6G9) - Images



Anti-VCAM1 antibody IHC of human colon, adipocytes.



Anti-VCAM1 antibody IHC of human placenta.



Anti-VCAM1 antibody IHC of human tonsil.

### **VCAM1 / CD106 Antibody (clone 6G9) - 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.

### **VCAM1 / CD106 Antibody (clone 6G9) - 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).