

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

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

| | |
|-------------------|------------------------|
| Application | IHC |
| Primary Accession | P19320 |
| 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: [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

Volume

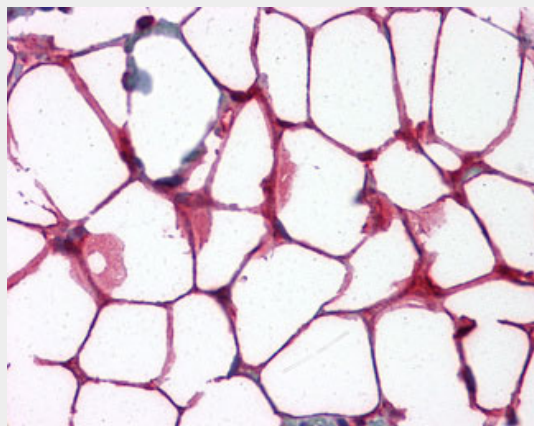
50 μ l

VCAM1 / CD106 Antibody (clone 6G9) - Protocols

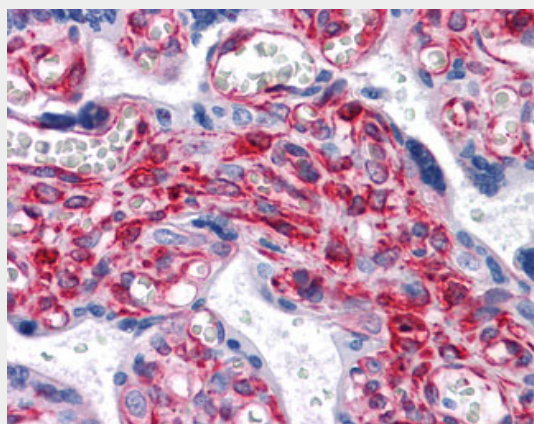
Provided below are standard protocols that you may find useful for product applications.

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

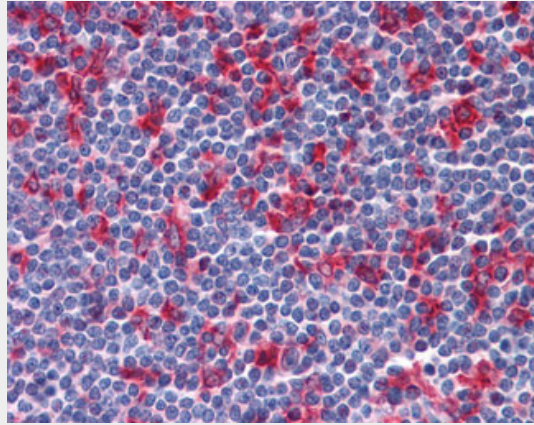
VCAM1 / CD106 Antibody (clone 6G9) - Images



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).