

**VCAM1 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1398a****Specification**

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**VCAM1 Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">P19320</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>81kDa KDa</b>

**Description**

This gene is a member of the Ig superfamily and encodes a cell surface sialoglycoprotein expressed by cytokine-activated endothelium. This type I membrane protein mediates leukocyte-endothelial cell adhesion and signal transduction, and may play a role in the development of atherosclerosis and rheumatoid arthritis. Two alternatively spliced transcripts encoding different isoforms have been described for this gene. Tissue specificity: Expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflamed tissue. INVITROGEN: CD106 is expressed on bone marrow stromal cells, myeloid cells, and endothelial cells.

**Immunogen**

Purified recombinant fragment of human VCAM1 expressed in E. Coli.

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**VCAM1 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~~1/500 - 1/2000

IHC~~1/500 - 1/2000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

VCAM1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**VCAM1 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:<a href="http://www.uniprot.org/citations/31310649" target="\_blank">31310649</a>). Acts as a major regulator of leukocyte adhesion to the endothelium through interaction with different types of integrins (PubMed:<a href="http://www.uniprot.org/citations/10209034" target="\_blank">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="http://www.uniprot.org/citations/22970700" target="\_blank">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:<a href="http://www.uniprot.org/citations/35210567" target="\_blank">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

## VCAM1 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](#)

## VCAM1 Antibody - Images



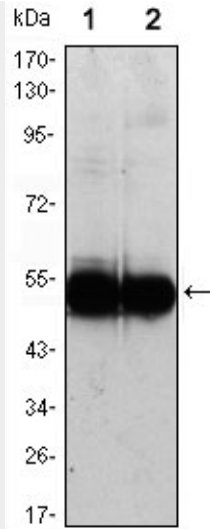


Figure 1: Western blot analysis using VCAM1 mouse mAb against HUVEC (1) and EC (2) cell lysate.

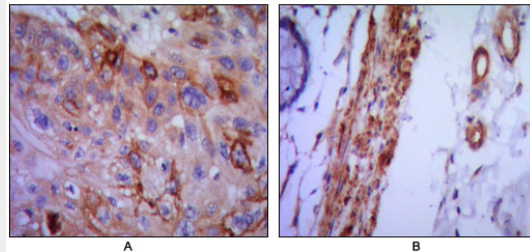


Figure 2: Immunohistochemical analysis of paraffin-embedded human lung cancer (A) and colon cancer (B) using VCAM1 mouse mAb with DAB staining.

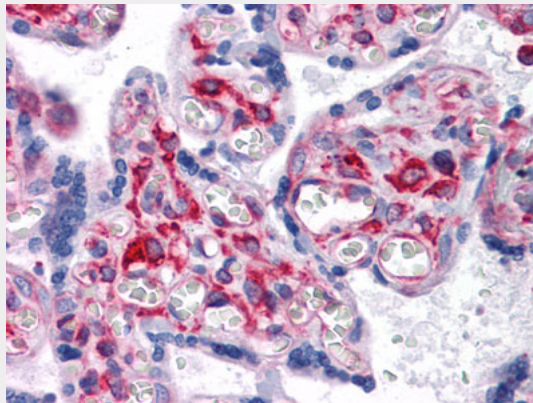


Figure 3: Immunohistochemical analysis of paraffin-embedded human Placenta tissues using VCAM1 mouse mAb

#### VCAM1 Antibody - References

1. Cell Adh Migr. 2009 Oct;3(4):369-72.
2. Arthritis Rheum. 2010 Jan;62(1):105-16.