

For Research Use Only

# VCAM-1/CD106 Polyclonal antibody

Catalog Number: 11444-1-AP

Featured Product

99 Publications



## Basic Information

### Catalog Number:

11444-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1993

### GenBank Accession Number:

BC017276

### GeneID (NCBI):

7412

### UNIPROT ID:

P19320

### Full Name:

vascular cell adhesion molecule 1

### Calculated MW:

739 aa, 81 kDa

### Observed MW:

110 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:400-1:1600

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human

### Cited Species:

human

### Positive Controls:

WB: TNF alpha treated HUVEC cells,

IHC: human tonsillitis tissue, human kidney tissue, human spleen tissue, human placenta tissue, human lung cancer tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Vascular cell adhesion molecule 1 (VCAM1), also known as CD106, is a 110-kDa transmembrane glycoprotein belonging to the immunoglobulin gene superfamily. VCAM1 is expressed by cytokine-activated endothelium, interacts with integrin VLA4 ( $\alpha 4 \beta 1$ ) present on the surface of leukocytes, and mediates both adhesion and signal transduction. It is also expressed either constitutively or inducibly in a variety of other cell types, including vascular smooth muscle cells, differentiating skeletal muscle cells, renal and neural epithelial cells, macrophages (Kupffer cells), dendritic cells, and bone marrow stromal cells (PMID: 7507076, 11359843).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xinyu Zhu	36103933	Eur J Pharmacol	
Yao Ding	34492084	PLoS Pathog	IHC
Zinan Wang	34715363	Int J Biochem Cell Biol	

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

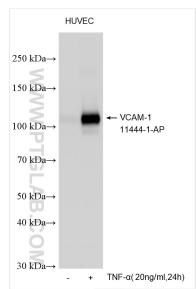
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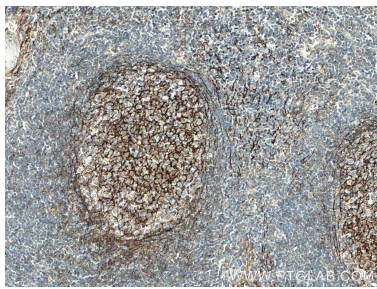
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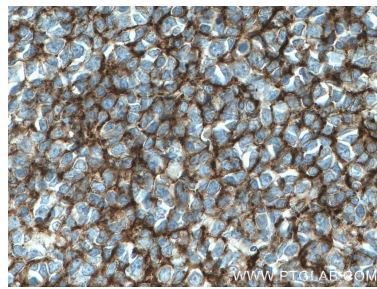
## Selected Validation Data



Untreated or TNF-α-treated HUVEC cells were subjected to SDS PAGE followed by western blot with 11444-1-AP (VCAM-1/CD106 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 11444-1-AP (VCAM-1/CD106 antibody) at dilution of 1:800 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 11444-1-AP (VCAM-1/CD106 antibody) at dilution of 1:800 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).