

## VCAM-1/CD106 Monoclonal antibody

Catalog Number: 66294-1-Ig **36 Publications**

## Basic Information

<b>Catalog Number:</b> 66294-1-Ig	<b>GenBank Accession Number:</b> BC017276	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2700 ug/ml by Nanodrop and 1500 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 7412	<b>CloneNo.:</b> 1B12F12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P19320	<b>Recommended Dilutions:</b> IHC 1:2000-1:8000 IF-P 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> vascular cell adhesion molecule 1	
<b>Immunogen Catalog Number:</b> AG24697	<b>Calculated MW:</b> 739 aa, 81 kDa	
	<b>Observed MW:</b> 110 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF-P, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC, IF	<b>IHC :</b> human tonsillitis tissue, human lung cancer tissue
<b>Species Specificity:</b> human	<b>IF-P :</b> human tonsillitis tissue,
<b>Cited Species:</b> human, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Zhuqing Li	34607159	Redox Biol	IF
Kaho Kanno	34638873	Int J Mol Sci	
Tong Lin	33002827	Phytomedicine	

## 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

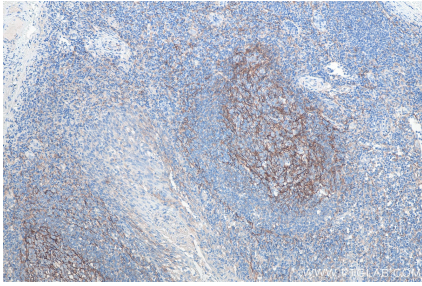
**Aliquoting is unnecessary for -20°C storage**

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

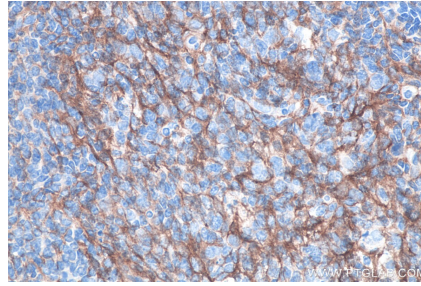
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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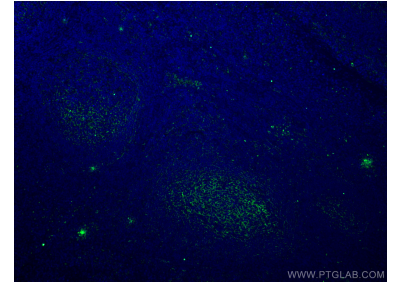
## Selected Validation Data



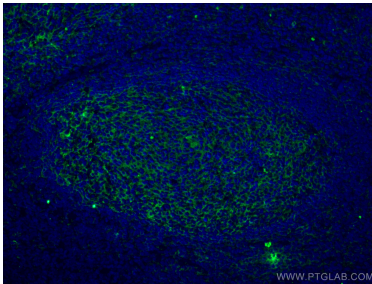
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66294-1-Ig (VCAM-1/CD106 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



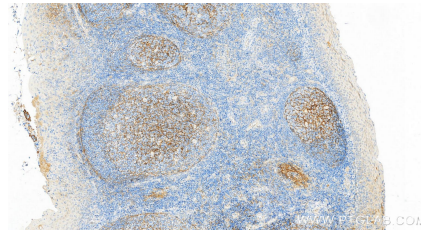
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66294-1-Ig (VCAM-1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using VCAM-1/CD106 antibody (66294-1-Ig, Clone: 1B12F12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using VCAM-1 antibody (66294-1-Ig, Clone: 1B12F12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66294-1-Ig (VCAM-1/CD106 antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).