

For Research Use Only

VCAM-1/CD106 Monoclonal antibody

Catalog Number: 66294-1-Ig **35 Publications**



Basic Information

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

Applications

Tested Applications: IHC, IF-P, ELISA	Positive Controls:
Cited Applications: IHC, IF	IHC : human tonsillitis tissue, human lung cancer tissue
Species Specificity: human	IF-P : human tonsillitis tissue,
Cited Species: human, rat	
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
Zhuqing Li	34607159	Redox Biol	IF
Kaho Kanno	34638873	Int J Mol Sci	
Tong Lin	33002827	Phytomedicine	

Storage

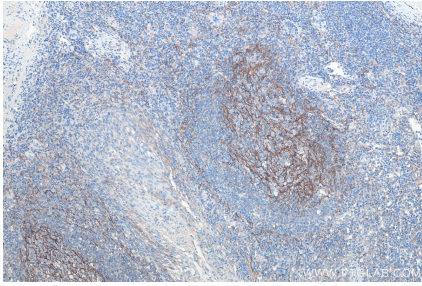
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

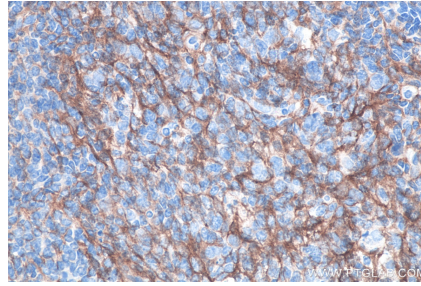
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

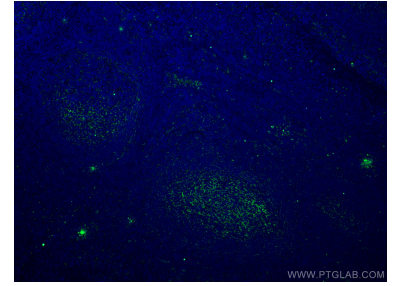
Selected Validation Data



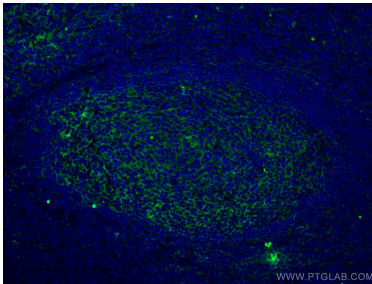
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66294-1-Ig (VCAM-1/CD106 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



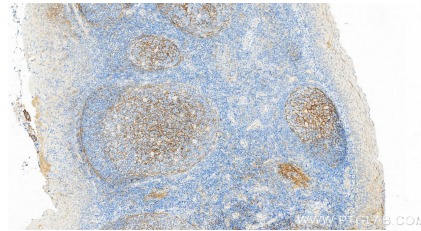
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66294-1-Ig (VCAM-1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).