For Research Use Only

VCAM-1/CD106 Monoclonal antibody

Catalog Number:66294-1-Ig 41 Publications

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Basic Information

Catalog Number:
66294-1-Ig

Size:
150ul , Concentration: 2000 ug/ml by Nanodrop and 716 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG24697

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:
Protein A purification

CloneNo.:
1B12F12

Recommended Dilutions:
IHC: 1:2000-1:8000
IF-P: 1:200-1:800

Applications

Tested Applications:
IHC, IF-P, ELISA

Cited Applications:
IHC, IF, IF-P, ELISA

Species Specificity:
human

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

Positive Controls:

IHC : human tonsillitis tissue, human lung cancer tissue

IF-P : human tonsillitis tissue,

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 (α4β1) 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
Kaho Kanno	34638873	Int J Mol Sci	
Zhuqing Li	34607159	Redox Biol	IF
Tong Lin	33002827	Phytomedicine	

Storage

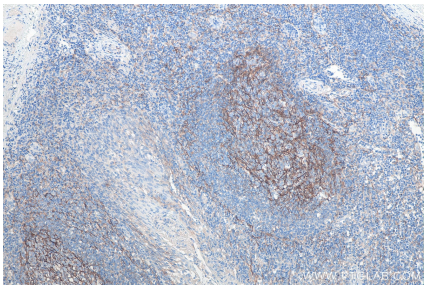
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

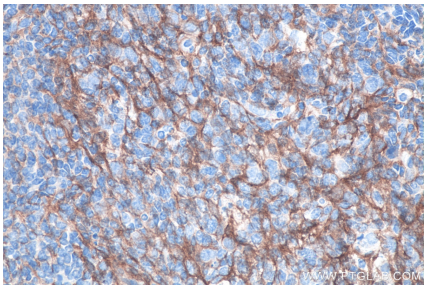
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

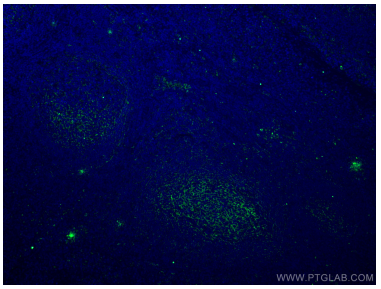
Selected Validation Data



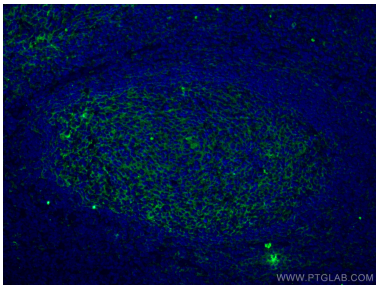
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66294-1-Ig (VCAM-1/CD106 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



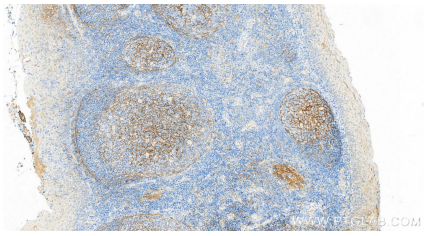
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66294-1-Ig (VCAM-1 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).