

For Research Use Only

Mouse VCAM-1/CD106 Recombinant antibody, PBS Only (Capture)

Catalog Number: 83719-1-PBS



Basic Information

Catalog Number: 83719-1-PBS	GenBank Accession Number: CAA47989.1	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 22329	CloneNo.: 240597B2
Source: Rabbit	UNIPROT ID: P29533	
Isotype: IgG	Full Name: vascular cell adhesion molecule 1	
	Calculated MW: 81 kDa	
	Observed MW: 90 kDa	

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Sandwich ELISA,
Indirect ELISA, Sample test

Species Specificity:
mouse

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).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:

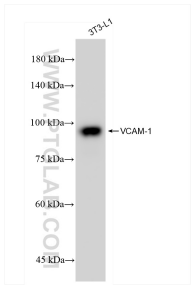
T: 4006900926

E: Proteintech-CN@ptglab.com

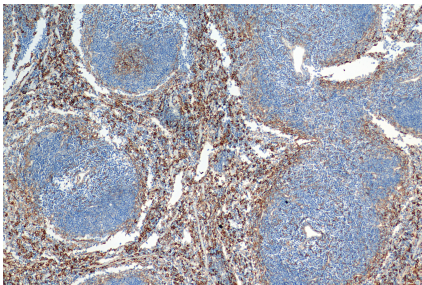
W: ptgcn.com

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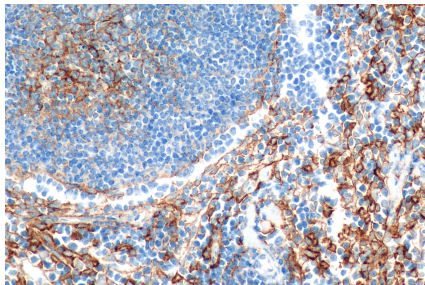
Selected Validation Data



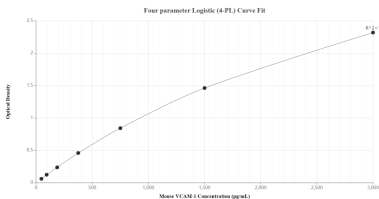
3T3-L1 cells were subjected to SDS PAGE followed by western blot with 83719-1-RR (VCAM-1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83719-1-PBS in a different storage buffer formulation.



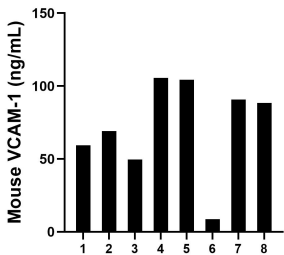
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83719-1-RR (VCAM-1/CD106 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83719-1-PBS in a different storage buffer formulation.



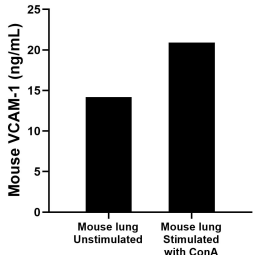
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83719-1-RR (VCAM-1/CD106 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83719-1-PBS in a different storage buffer formulation.



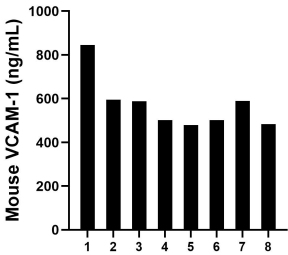
Sandwich ELISA standard curve of MP00701-4, Mouse VCAM-1/CD106 Recombinant Matched Antibody Pair - PBS only. 83719-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg0639. 83719-3-PBS was HRP conjugated as the detection antibody. Range: 46.88-3000 pg/mL.



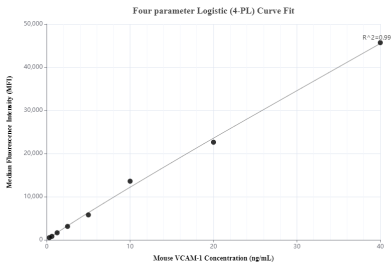
Urine of eight mice was measured. The VCAM-1 concentration of detected samples was determined to be 71.97 ng/mL with a range of 8.65-105.58 ng/mL.



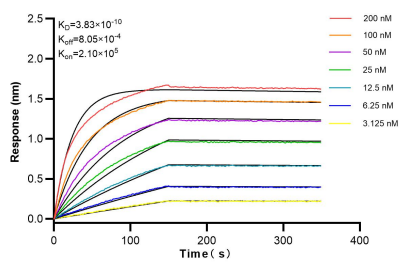
Mouse lung, cut into 1-2 mm pieces, was cultured for 3 days in 25-30 mL of RPMI supplemented with 10% fetal bovine serum and unstimulated or stimulated with 10 μ g/mL ConA. The mean VCAM-1 concentration was determined to be 14.2 ng/mL in unstimulated mouse lung superantant, 20.9 ng/mL in ConA stimulated mouse lung superantant.



Serum of eight mice was measured. The VCAM-1 concentration of detected samples was determined to be 572.76 ng/mL with a range of 483.18-844.96 ng/mL.



Cytometric bead array standard curve of MP00701-1, MOUSE VCAM-1/CD106 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83719-1-PBS. Detection antibody: 83719-4-PBS. Standard: Eg0639. Range: 0.313-40 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 83719-1-RR against Mouse VCAM-1 were performed. The affinity constant is 0.383 nM.