For Research Use Only

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

Catalog Number:84249-4-PBS

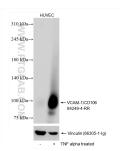
Basic Information	Catalog Number: 84249-4-PBS	GenBank Accession Number: NM_001078.4	Purification Method: Protein A purification
	Size: 100ug, Concentration: 1 mg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenelD (NCBI):	CloneNo.:
		7412	241284B2
		UNIPROT ID:	
		P19320-1	
		Full Name: vascular cell adhesion molecule 1	
		Calculated MW:	
		81 kDa	
		Observed MW: 100 kDa	
Applications	Tested Applications: WB, IHC, IF-P, Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test		
	Species Specificity: human		
Product Information			
	84249-4-PBS targets VCAM-1/CD106 as part of a matched antibody pair.		
	MP01145-3: 84249-4-PBS capture and 84249-2-PBS detection (validated in Cytometric bead array, Sandwich ELISA)		
	Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.		
	This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.		
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 (α 4 β 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. Storage Buffer: PBS only, pH7.3		

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

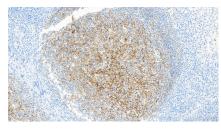
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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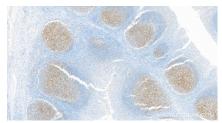
Selected Validation Data



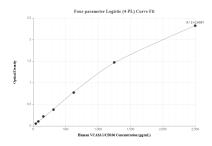
TNF alpha treated HUVEC cells were subjected to SDS PAGE followed by western blot with 84249-4-RR (VCAM-1/CD106 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84249-4-PBS in a different storage buffer formulation.



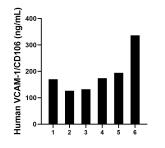
Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 84249-4-RR (VCAM-1/CD106 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84249-4-PBS in a different storage buffer formulation.



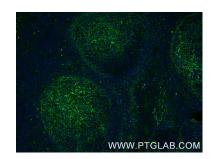
Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 84249-4-RR (VCAM-1/CD106 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84249-4-PBS in a different storage buffer formulation.



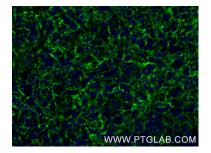
Sandwich ELISA standard curve of MP01145-3, Human VCAM-1/CD106 Recombinant Matched Antibody Pair - PBS only. 84249-4-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard RP02345. 84249-2-PBS was HRP conjugated as the detection antibody. Range: 39.1-2500 pg/mL



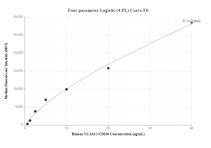
Serum of six individual healthy human donors was measured. The human VCAM-1/CD106 concentration of detected samples was determined to be 188.79 ng/mL with a range of 126.68 - 336.06 ng/mL



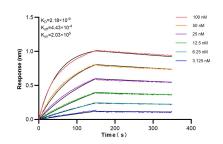
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using VCAM-1/CD106 antibody (84249-4-RR, Clone: 241284B2) at dilution of 1:500 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84249-4-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using VCAM-1/CD106 antibody (84249-4-RR, Clone: 24128482) at dilution of 1:500 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84249-4-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01145-3, VCAM-1/CD106 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84249-4-PBS. Detection antibody: 84249-2-PBS. Standard: RP02345. Range: 0.625-40 ng/mL



Biolayer interferometry (BLI) kinetic assays of 84249-4-RR against Human VCAM-1/CD106 were performed. The affinity constant is 2.18 nM.