

For Research Use Only

Integrin Alpha V Recombinant monoclonal antibody, PBS Only

Catalog Number: 84883-5-PBS



Basic Information

Catalog Number: 84883-5-PBS	GenBank Accession Number: BC136442	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 3685	CloneNo.: 242376D3
Isotype: IgG	UNIPROT ID: P06756	
Immunogen Catalog Number: AG25825	Full Name: integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)	
	Calculated MW: 1048 aa, 116 kDa	
	Observed MW: 130 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, FC, Indirect ELISA

Species Specificity:
human

Background Information

Integrins are cell adhesion receptors that are heterodimers composed of non-covalently associated alpha and beta subunits. Integrin alpha V, also known as CD51, is a type I transmembrane glycoprotein composed of an extracellular domain, a transmembrane region and cytoplasmic domain (PMID: 2430295; 1690718). It can form heterodimers with one of the five beta integrin subunits (beta 1, 3, 5, 6, 8) that recognize ligands containing the sequence Arg-Gly-Asp, such as vitronectin, fibronectin, and osteopontin (PMID: 37087799). Integrin alpha V mainly plays a role in extracellular matrix-mediated cell adhesion and migration, differentiation, wound healing, inflammation, tumorigenesis, proliferation, angiogenesis, and metastasis.

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, pH7.3

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

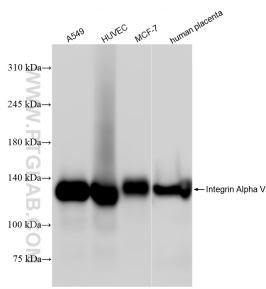
T: 4006900926

E: Proteintech-CN@ptglab.com

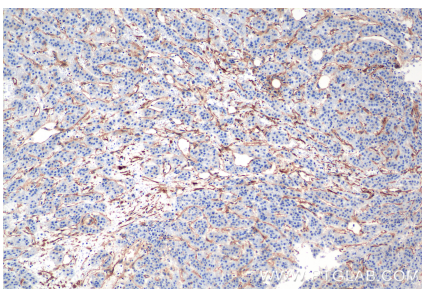
W: ptgcn.com

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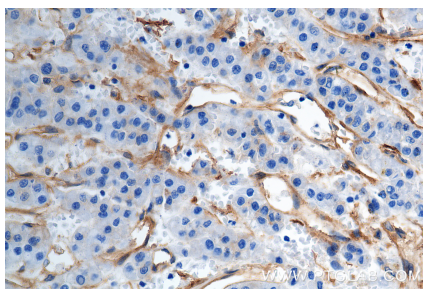
Selected Validation Data



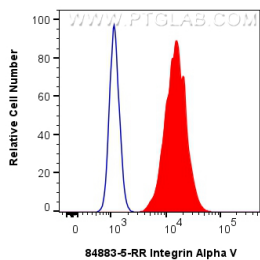
Various lysates were subjected to SDS PAGE followed by western blot with 84883-5-RR (Integrin Alpha V antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84883-5-PBS in a different storage buffer formulation.



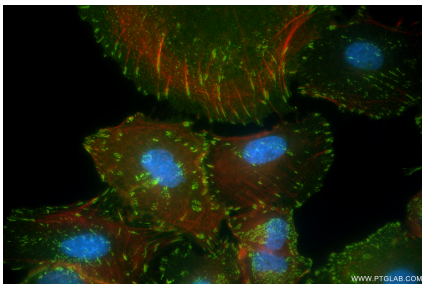
Immunohistochemical analysis of paraffin-embedded human hepatocellular cancer slide using 84883-5-RR (Integrin Alpha V antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84883-5-PBS in a different storage buffer formulation.



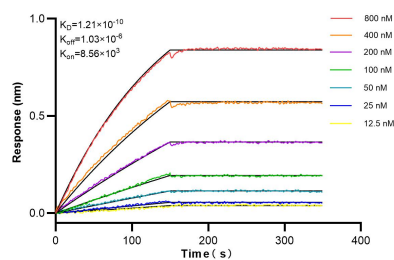
Immunohistochemical analysis of paraffin-embedded human hepatocellular cancer slide using 84883-5-RR (Integrin Alpha V antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84883-5-PBS in a different storage buffer formulation.



1x10⁶ A549 cells were surface stained with 0.25 ug Integrin Alpha V Recombinant monoclonal antibody (84883-5-RR, Clone: 242376D3) (red) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Cells were not fixed. This data was developed using the same antibody clone with 84883-5-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed A549 cells using Integrin Alpha V antibody (84883-5-RR, Clone: 242376D3) at dilution of 1:500 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84883-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84883-5-RR against Human Integrin Alpha V were performed. The affinity constant is 0.121 nM.