

For Research Use Only

VE-cadherin/CD144 Recombinant antibody, PBS Only

Catalog Number: 83766-6-PBS



Basic Information

Catalog Number: 83766-6-PBS	GenBank Accession Number: NM_001795.5	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 1003	CloneNo.: 240755D5
Source: Rabbit	UNIPROT ID: P33151-1	
Isotype: IgG	Full Name: cadherin 5, type 2 (vascular endothelium)	
Immunogen Catalog Number: EG1200	Calculated MW: 88 kDa	
	Observed MW: 90-100 kDa, 130-140 kDa	

Applications

Tested Applications:
WB, IF/ICC, IF-P, Indirect ELISA

Species Specificity:
human

Background Information

Cadherins are a family of transmembrane glycoproteins that mediate calcium-dependent cell-cell adhesion and play an important role in the maintenance of normal tissue architecture. Vascular endothelial cadherin (VE-cadherin), also known as Cadherin-5 (CDH5) or CD144, is a member of the type II classical cadherin family of cell adhesion proteins (PMID: 21269602). VE-cadherin is expressed specifically in endothelial cells and mediates homophilic adhesion in the vascular endothelium (PMID: 1522121; 8555485; 21269602). VE-cadherin plays a role in the organization of lateral endothelial junctions and in the control of permeability properties of vascular endothelium (PMID: 1522121). VE-cadherin has also been shown to be required for angiogenesis (PMID: 16473763; 18162609). The calculated molecular weight of VE-cadherin is 88 kDa and the apparent molecular weight of 120-140 kDa is higher due to post-translational glycosylation and phosphorylation (PMID: 10460833; 29894844). Full-length VE-cadherin can be proteolytically cleaved to generate a fragment of 90-100 kDa (PMID: 9786462; 22064597).

Storage

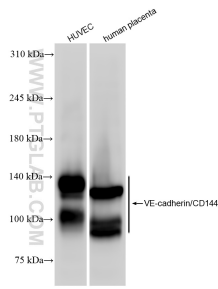
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

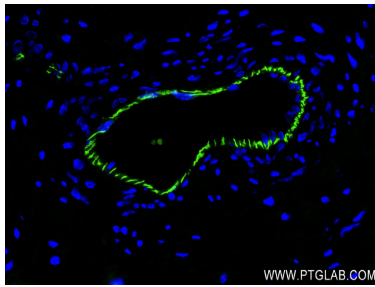
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

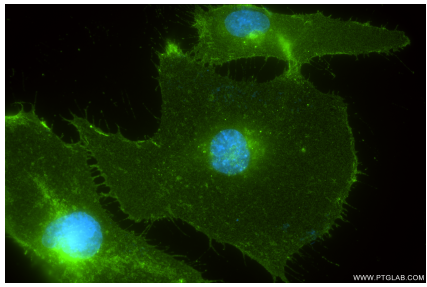
Selected Validation Data



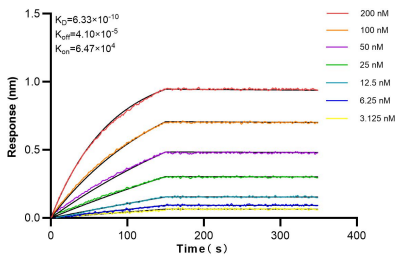
Various lysates were subjected to SDS PAGE followed by western blot with 83766-6-RR (VE-cadherin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83766-6-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using VE-cadherin/CD144 antibody (83766-6-RR, Clone: 240755D5) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83766-6-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using VE-cadherin/CD144 antibody (83766-6-RR, Clone: 240755D5) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83766-6-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83766-6-RR against Human VE-cadherin/CD144 were performed. The affinity constant is 0.633 nM.