

For Research Use Only

VE-cadherin/CD144 Recombinant antibody

Catalog Number: 83766-6-RR



Basic Information

Catalog Number: 83766-6-RR	GenBank Accession Number: NM_001795.5	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1003	CloneNo.: 240755D5
Source: Rabbit	UNIPROT ID: P33151-1	Recommended Dilutions: WB 1:2000-1:10000 IF-P 1:150-1:600
Isotype: IgG	Full Name: cadherin 5, type 2 (vascular endothelium)	
	Calculated MW: 88 kDa	
	Observed MW: 90-100 kDa, 130-140 kDa	

Applications

Tested Applications: WB, IF-P, ELISA	Positive Controls: WB : HUVEC cells, human placenta tissue
Species Specificity: human	IF-P : human placenta tissue,

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

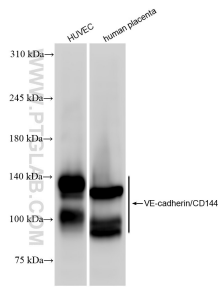
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

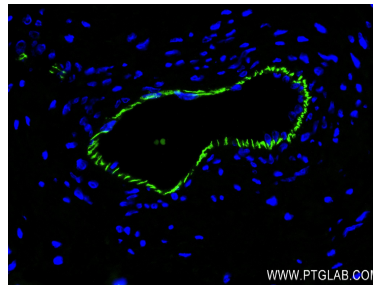
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



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.



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).