

For Research Use Only

VE-cadherin/CD144 Recombinant antibody, PBS Only

Catalog Number: 83766-5-PBS



Basic Information

Catalog Number: 83766-5-PBS	GenBank Accession Number: NM_001795.5	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 1003	CloneNo.: 240755E10
Source: Rabbit	UNIPROT ID: P33151-1	
Isotype: IgG	Full Name: cadherin 5, type 2 (vascular endothelium)	
	Calculated MW: 88 kDa	
	Observed MW: 130 kDa	

Applications

Tested Applications:
WB, 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

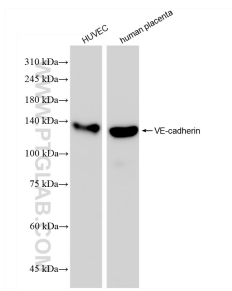
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

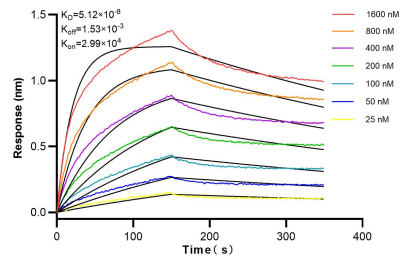
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83766-5-RR (VE-cadherin/CD144 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83766-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83766-5-RR against Human VE-cadherin were performed. The affinity constant is 51.2 nM.