

For Research Use Only

# VE-cadherin/CD144 Recombinant antibody, PBS Only

Catalog Number: 83766-6-PBS



## Basic Information

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

## Applications

**Tested Applications:**  
WB, 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

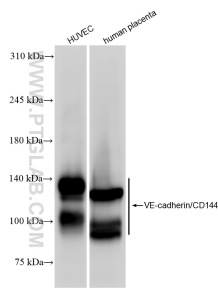
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

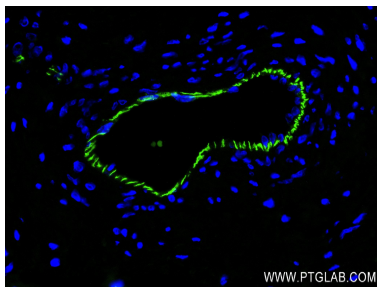
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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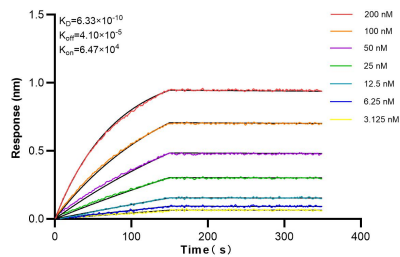
## Selected Validation Data



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. 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.



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