

For Research Use Only

VE-cadherin/CD144 Recombinant antibody

Catalog Number: 83766-6-RR

1 Publications



Basic Information

Catalog Number:

83766-6-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG1200

GenBank Accession Number:

NM_001795.5

GeneID (NCBI):

1003

UNIPROT ID:

P33151-1

Full Name:

cadherin 5, type 2 (vascular endothelium)

Calculated MW:

88 kDa

Observed MW:

90-100 kDa, 130-140 kDa

Purification Method:

Protein A purification

CloneNo.:

240755D5

Recommended Dilutions:

WB 1:2000-1:10000

IF-P 1:150-1:600

Applications

Tested Applications:

WB, IF-P, ELISA

Cited Applications:

WB, IF

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : HUVEC cells, human placenta tissue

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Dingchen Wang	39900554	J Cell Mol Med	WB,IF

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

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

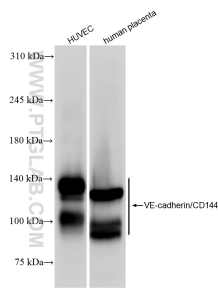
T: 4006900926

E: Proteintech-CN@ptglab.com

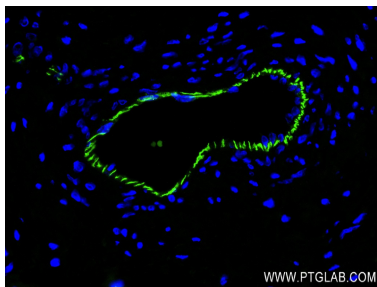
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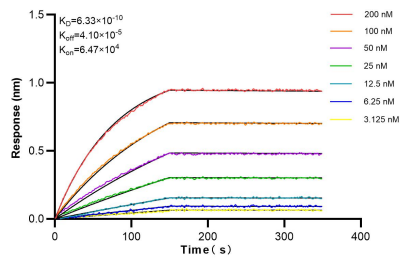
Selected Validation Data



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).



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