

For Research Use Only

VE-cadherin Polyclonal antibody

Catalog Number: 27956-1-AP **12 Publications**



Basic Information

Catalog Number: 27956-1-AP	GenBank Accession Number: NM_001795	Purification Method: Antigen affinity purification
Size: 500 µg/ml	GeneID (NCBI): 1003	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:100-1:400
Source: Rabbit	UNIPROT ID: P33151	
Isotype: IgG	Full Name: cadherin 5, type 2 (vascular endothelium)	
Immunogen Catalog Number: AG27487	Calculated MW: 88 kDa	
	Observed MW: 120-140 kDa	

Applications

Tested Applications:

FC, IHC, WB, ELISA

Cited Applications:

WB, IF

Species Specificity:

Human

Cited Species:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HUVEC cells, human placenta tissue

IHC : human placenta tissue, human breast cancer tissue, human lung cancer 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
Pengwei Deng	36354579	Bioengineering (Basel)	IF
Xiang-Hua Yu	36321394	Oral Dis	IF
Zhaoke Wu	35155276	Front Cell Infect Microbiol	WB

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:

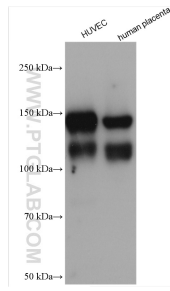
T: 4006900926

E: Proteintech-CN@ptglab.com

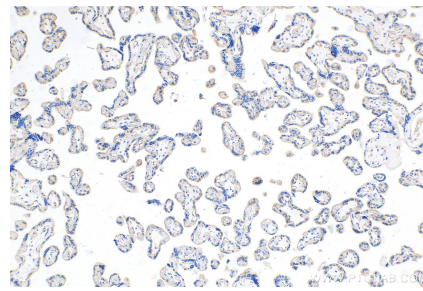
W: ptgcn.com

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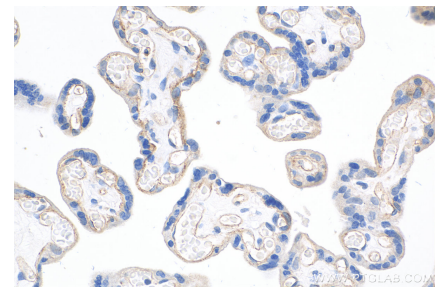
Selected Validation Data



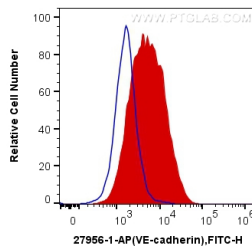
Various lysates were subjected to SDS PAGE followed by western blot with 27956-1-AP (VE-cadherin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 27956-1-AP (VE-cadherin antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 27956-1-AP (VE-cadherin antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ HUVEC cells were surface stained with 0.4 ug Anti-Human VE-cadherin (27956-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were not fixed.