For Research Use Only

## VE-cadherin/CD144 Polyclonal antibody

Catalog Number:27956-1-AP

28 Publications



## Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 27956-1-AP NM 001795 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 500 ug/ml by 1003 WB: 1:1000-1:4000 IHC: 1:500-1:2000 Nanodrop: UNIPROT ID: IF/ICC: 1:50-1:500 Source P33151 FC: 0.40 ug per 10^6 cells in a 100 µl Rabbit Full Name: suspension Isotype cadherin 5, type 2 (vascular endothelium) lgG Immunogen Catalog Number: Calculated MW: 88 kDa AG27487 **Observed MW:** 120-140 kDa **Applications Tested Applications:** Positive Controls: WB, IHC, IF/ICC, FC, ELISA WB: HUVEC cells, human placenta tissue **Cited Applications:** IHC : human placenta tissue, human breast cancer WB, IHC, IF tissue, human lung cancer tissue Species Specificity: IF/ICC : HUVEC cells, human FC : HUVEC cells, **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 **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 (VEcadherin), 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). Fulllength VE-cadherin can be proteolytically cleaved to generate a fragment of 90-100 kDa (PMID: 9786462; 22064597). Notable Publications Author Pubmed ID Journal Application IF Pengwei Deng 36354579 Bioengineering (Basel) IF Xiang-Hua Yu Oral Dis 36321394 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, pH7.3 Aliquoting is unnecessary for -20°C storage \*\*\* 20ul sizes contain 0.1% BSA This product is exclusively available under Proteintech 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) E: proteintech@ptglab.com W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



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



Immunohistochemical analysis of paraffinembedded human placenta tissue slide using 27956-1-AP (VE-cadherin antibody) at dilution of 1:1000 (under 10x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human placenta tissue slide using 27956-1-AP (VE-cadherin antibody) at dilution of 1:1000 (under 40x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> 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, or 0.4 ug Control Antibody. Cells were not fixed.



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using VE-cadherin/CD144 antibody (27956-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using VE-cadherin/CD144 antibody (27956-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).