

For Research Use Only

VE-cadherin/CD144 Monoclonal antibody

Catalog Number: 66804-1-Ig

42 Publications



Basic Information

Catalog Number: 66804-1-Ig	GenBank Accession Number: NM_001795	Purification Method: Protein G purification
Size: 150ul , Concentration: 1500 ug/ml by Nanodrop;	GeneID (NCBI): 1003	CloneNo.: 4F9B10
Source: Mouse	UNIPROT ID: P33151	Recommended Dilutions: WB: 1:1000-1:6000 IHC: 1:100-1:400 IF-P: 1:200-1:800 IF/ICC: 1:750-1:3000
Isotype: IgG1	Full Name: cadherin 5, type 2 (vascular endothelium)	
Immunogen Catalog Number: AG27501	Calculated MW: 88 kDa	
	Observed MW: 125 kDa, 100 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls: WB : human placenta tissue, IHC : human breast cancer tissue, human tonsillitis tissue, human placenta tissue IF-P : human placenta tissue, IF/ICC : HUVEC cells,
Cited Applications: WB, IHC, 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	

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoyi Zhang	36131066	Cancer Gene Ther	WB
Kexin Ma	32961493	Ecotoxicol Environ Saf	
Min Zhang	33173719	Adv Sci (Weinh)	

Storage

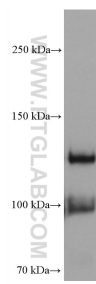
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

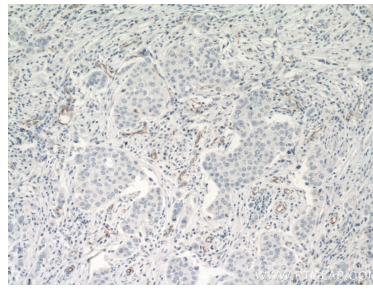
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

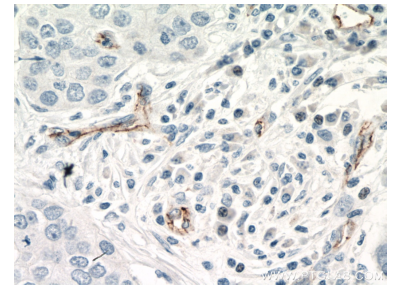
Selected Validation Data



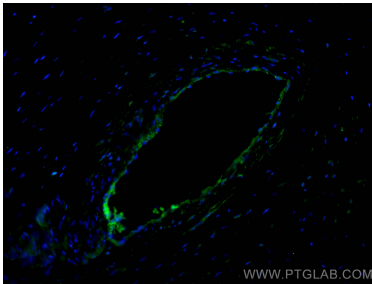
human placenta tissue were subjected to SDS PAGE followed by western blot with 66804-1-Ig (VE-cadherin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



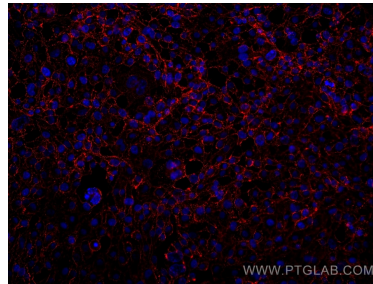
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66804-1-Ig (VE-cadherin antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66804-1-Ig (VE-cadherin antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using VE-cadherin antibody (66804-1-Ig, Clone: 4F9B10) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of un-fixed HUVEC cells using VE-cadherin/CD144 antibody (66804-1-Ig, Clone: 4F9B10) at dilution of 1:1500 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).