

For Research Use Only

VE-cadherin Monoclonal antibody

Catalog Number: 66804-1-Ig **18 Publications**



Basic Information

Catalog Number: 66804-1-Ig	GenBank Accession Number: NM_001795	Purification Method: Protein G purification
Size: 150ul , Concentration: 1500 µg/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
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: IHC, WB, ELISA	Positive Controls: WB : human placenta tissue, IHC : human breast cancer tissue, human tonsillitis tissue, human placenta tissue
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

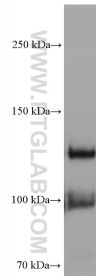
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

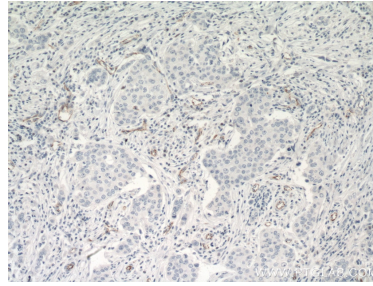
For technical support and original validation data for this product please contact:
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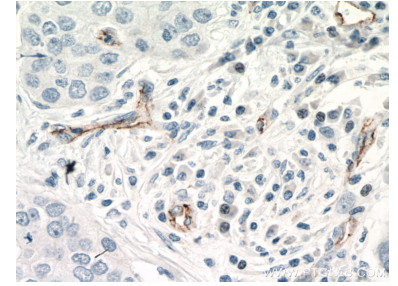
Selected Validation Data



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).