

For Research Use Only

# VE-cadherin Monoclonal antibody

Catalog Number: 66804-1-Ig **25 Publications**



## Basic Information

<b>Catalog Number:</b> 66804-1-Ig	<b>GenBank Accession Number:</b> NM_001795	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1500 µg/ml	<b>GeneID (NCBI):</b> 1003	<b>CloneNo.:</b> 4F9B10
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P33151	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:100-1:400 IF 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> cadherin 5, type 2 (vascular endothelium)	
<b>Immunogen Catalog Number:</b> AG27501	<b>Calculated MW:</b> 88 kDa	
	<b>Observed MW:</b> 125 kDa, 100 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : human placenta tissue, IHC : human breast cancer tissue, human tonsillitis tissue, human placenta tissue IF : human placenta tissue,
<b>Cited Applications:</b> WB, IHC	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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)	

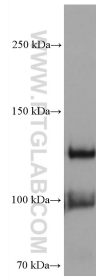
## Storage

**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

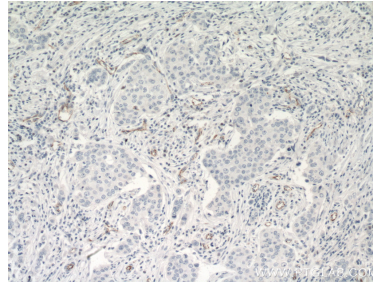
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

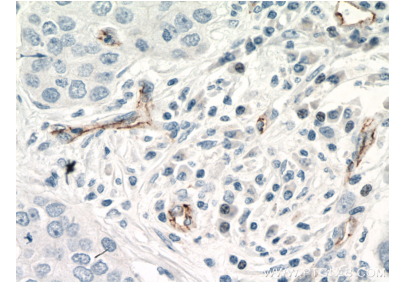
## Selected Validation Data



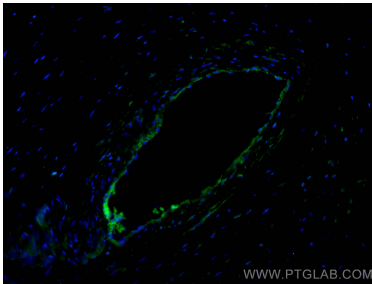
human placenta tissue were subjected to SDS PAGE followed by western blot with 66804-1-Ig (VE-cadherin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).