For Research Use Only

VE-cadherin/CD144 Monoclonal antibody

Catalog Number:66804-1-Ig

34 Publications

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Basic Information

Catalog Number:
66804-1-Ig

Size:
150ul , Concentration: 1500 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG27501

GenBank Accession Number:
NM_001795

GeneID (NCBI):
1003

UNIPROT ID:
P33151

Full Name:
cadherin 5, type 2 (vascular endothelium)

Calculated MW:
88 kDa

Observed MW:
125 kDa, 100 kDa

Purification Method:
Protein A purification

CloneNo.:
4F9B10

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:100-1:400
IF-P 1:200-1:800
IF/ICC 1:750-1:3000

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

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

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,

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)
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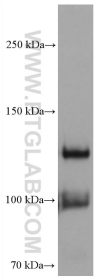
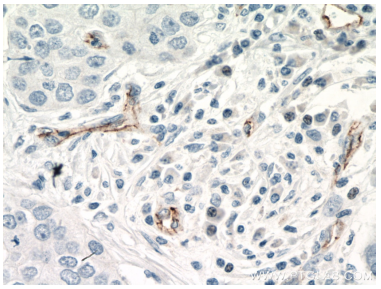
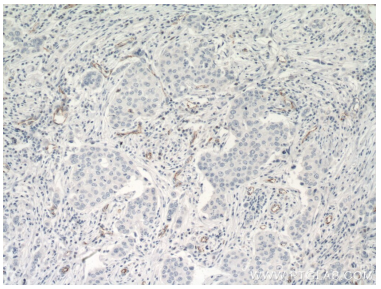
Selected Validation Data



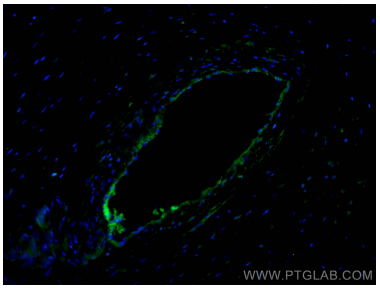
human placenta tissue were subjected to SDS PAGE followed by western blot with 66804-1-Ig (VE-cadherin antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



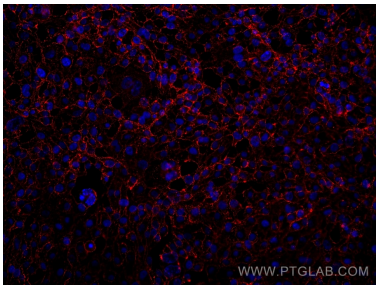
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66804-1-Ig (VE-cadherin antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66804-1-Ig (VE-cadherin antibody) at dilution of 1:400 (under 10x 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).