

For Research Use Only

# CoraLite®594-conjugated VE-cadherin/CD144 Monoclonal antibody

Catalog Number: CL594-66804

3 Publications



## Basic Information

Catalog Number:

CL594-66804

Size:

100ul , Concentration: 1000 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

Purification Method:

Protein G purification

CloneNo.:

4F9B10

Recommended Dilutions:

IF-P 1:50-1:500

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

## Applications

Tested Applications:

IF-P

Cited Applications:

WB, IF

Species Specificity:

human

Cited Species:

human

Positive Controls:

IF-P : human breast cancer tissue, human tonsillitis tissue

## 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). E-cadherin has also been shown to be required for angiogenesis (PMID: 16473763; 18162609).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xi Mei	38697011	Biochem Biophys Res Commun	IF
Jun He	38232667	Biochem Biophys Res Commun	WB,IF
Yuanshan Liu	37939799	Biomacromolecules	IF

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

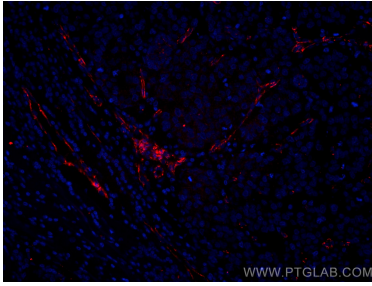
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

---

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using CoraLite®594 VE-cadherin antibody (CL594-66804, Clone: 4F9B10) at dilution of 1:100.