

For Research Use Only

CoraLite® Plus 647-conjugated VE-cadherin/CD144 Monoclonal antibody

Catalog Number:CL647-66804



Basic Information

Catalog Number: CL647-66804	GenBank Accession Number: NM_001795	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 1003	CloneNo.: 4F9B10
Source: Mouse	UNIPROT ID: P33151	Recommended Dilutions: IF/ICC: 1:50-1:500
Isotype: IgG1	Full Name: cadherin 5, type 2 (vascular endothelium)	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Immunogen Catalog Number: AG27501	Calculated MW: 88 kDa	
	Observed MW: 125 kDa, 100 kDa	

Applications

Tested Applications:	Positive Controls:
Species Specificity: human	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).

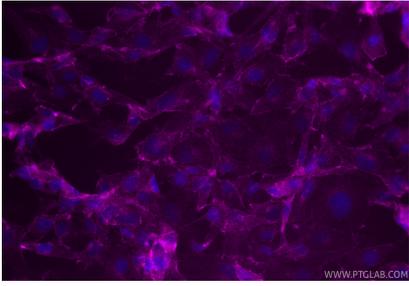
Storage

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, pH7.3
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)
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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



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using CoraLite® Plus 647 VE-cadherin/CD144 antibody (CL647-66804, Clone: 4F9B10) at dilution of 1:200.