

For Research Use Only

CoraLite® Plus 488-conjugated VE-cadherin/CD144 Recombinant antibody

Catalog Number:CL488-83766-2



Basic Information

Catalog Number: CL488-83766-2	GenBank Accession Number: NM_001795.5	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1003	CloneNo.: 240755D8
Source: Rabbit	UNIPROT ID: P33151-1	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG	Full Name: cadherin 5, type 2 (vascular endothelium)	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
	Calculated MW: 88 kDa	
	Observed MW: 130 kDa, 100 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : HUVEC cells,
Species Specificity: human	

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). The calculated molecular weight of VE-cadherin is 88 kDa and the apparent molecular weight of 120-140 kDa is higher due to post-translational glycosylation and phosphorylation (PMID: 10460833; 29894844). Full-length VE-cadherin can be proteolytically cleaved to generate a fragment of 90-100 kDa (PMID: 9786462; 22064597).

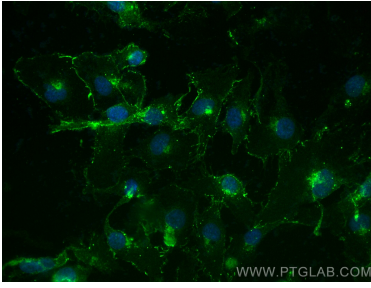
Storage

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)
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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 488 VE-cadherin/CD144 antibody (CL488-83766-2, Clone: 240755D8) at dilution of 1:200.