

For Research Use Only

CoraLux Violet 510 Anti-Human VE-cadherin/CD144 Rabbit Recombinant Antibody

Catalog Number: **CLV510-98071**



Basic Information

Catalog Number: CLV510-98071	GenBank Accession Number: NM_001795.5	Purification Method: Protein A purification
Concentration: 100tests, 5 ul/test	GeneID (NCBI): 1003	CloneNo.: 240755B2
Source: Rabbit	UNIPROT ID: P33151-1	Recommended Dilutions: FC: 5 ul per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG	Full Name: cadherin 5, type 2 (vascular endothelium)	Excitation/Emission maxima wavelengths: 410 nm / 501 nm
Immunogen Catalog Number: EG1200	Calculated MW: 88 kDa	

Applications

Tested Applications: FC	Positive Controls: FC : 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 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

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

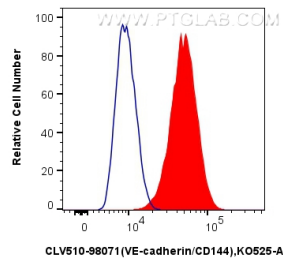
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Selected Validation Data



1×10^6 HUVEC cells were surface stained with 5 μ l CoraLux Violet 510 Anti-Human VE-cadherin/CD144 Rabbit RecAb (CLV510-98071, Clone: 240755B2) (red) or CoraLux Violet 510 Rabbit IgG Isotype Control Recombinant Antibody (CLV510-98136, Clone: 240953C9). Cells were not fixed.