For Research Use Only

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

Catalog Number:CLV510-98071

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CLV510-98071

Concentration:
100tests, 5 ul/test

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG1200

GenBank Accession Number:
NM_001795.5

GeneID (NCBI):
1003

UNIPROT ID:
P33151-1

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

Calculated MW:
88 kDa

Purification Method:
Protein A purification

CloneNo.:
240755B2

Recommended Dilutions:
FC: 5 ul per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
410 nm / 501 nm

Applications

Tested Applications:
FC

Species Specificity:
human

Positive Controls:

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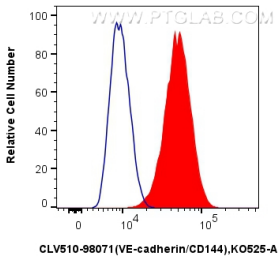
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10^6 HUVEC cells were surface stained with 5 ul 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.