

For Research Use Only

# FcZero-rAb® CoraLite® Plus 594 Anti-Human VE-cadherin/CD144 Rabbit Recombinant Antibody



Catalog Number: CL594-FcA98071

## Basic Information

**Catalog Number:**

CL594-FcA98071

**Size:**

100 tests, 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<sup>6</sup> cells in a 100 µl suspension

**Excitation/Emission maxima wavelengths:**

588 nm / 604 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

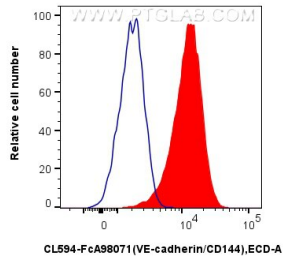
For technical support and original validation data for this product please contact:

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## Selected Validation Data



$1 \times 10^6$  HUVEC cells were surface stained with 5  $\mu$ l CoraLite® Plus 594 Anti-Human VE-cadherin/CD144 Rabbit RecAb (CL594-FcA98071, Clone: 240755B2) (red) or FcZero-rAb@ CoraLite® Plus 594 Rabbit IgG Isotype Control Recombinant Antibody (CL594-FcA98136, Clone: 240953C9) (blue). Cells were not fixed.