For Research Use Only

Anti-Human VE-cadherin/CD144 Rabbit Recombinant Antibody, PBS Only

Catalog Number:98071-1-PBS

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Basic Information

Catalog Number:
98071-1-PBS

Concentration:
1mg, 3 mg/ml

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

Applications

Tested Applications:
FC

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).

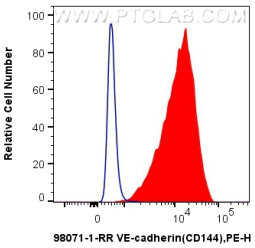
Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

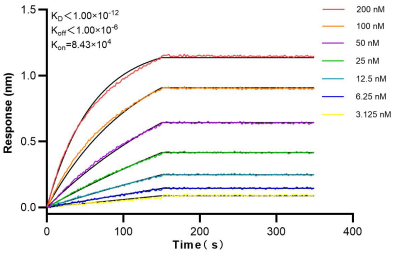
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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 stained with 0.25 ug Anti-Human VE-cadherin/CD144 Rabbit Recombinant Antibody (98071-1-RR, Clone:240755B2) (red), or 0.25 ug Isotype Control (blue). Cells were not fixed. This data was developed using the same antibody clone with 98071-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 98071-1-RR against Human VE-cadherin/CD144 were performed. The affinity constant is below 1 pM.