For Research Use Only

Mouse VE-cadherin Recombinant antibody, PBS Only (Capture)

Catalog Number:84529-3-PBS

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Antibodies | ELISA kits | Proteins
Uni-rAb
www.ptglab.com

Basic Information

Catalog Number:
84529-3-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG0921

GenBank Accession Number:
NM_009868.4

GeneID (NCBI):
12562

UNIPROT ID:
P55284

Full Name:
cadherin 5

Calculated MW:
88kDa

Purification Method:
Protein A purification

CloneNo.:
241953H6

Applications

Tested Applications:
IF/ICC, Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
mouse

Product Information

84529-3-PBS targets VE-cadherin as part of a matched antibody pair:

MP01386-2: 84529-3-PBS capture and 84529-2-PBS detection (validated in Cytometric bead array)

MP01386-3: 84529-3-PBS capture and 84529-6-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

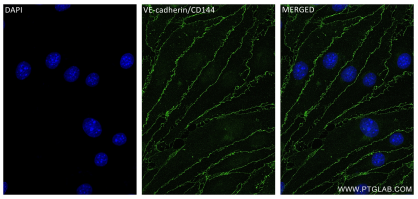
Cadherins are a family of transmembrane glycoproteins that mediate calcium-dependent cell-cell adhesion and play an important role in the maintenance of normal tissue architecture. Vascular endothelial cadherin (VE-cadherin), also known as Cadherin-5 (CDH5) or CD144, is a member of the type II classical 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).

Storage

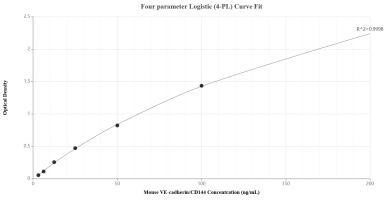
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

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)
E: proteintech@ptglab.com
W: ptglab.com

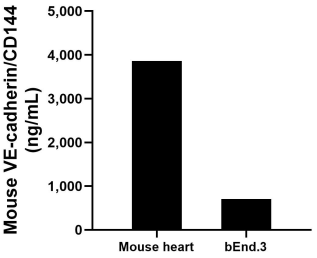
Selected Validation Data



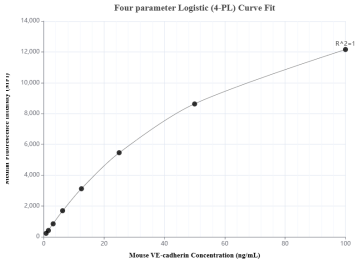
Immunofluorescent analysis of (4% PFA) fixed bEnd.3 cells using VE-cadherin antibody (84529-3-RR, Clone: 241953H6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84529-3-PBS in a different storage buffer formulation.



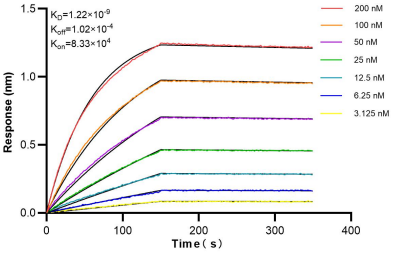
Sandwich ELISA standard curve of MP01386-3, Mouse VE-cadherin/CD144 Recombinant Matched Antibody Pair - PBS only. 84529-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg0921. 84529-6-PBS was HRP conjugated as the detection antibody. Range: 3.13-200 ng/mL.



The mean VE-cadherin/CD144 concentration was determined to be 3,858.35 ng/mL in mouse heart tissue extract based on a 1.20 mg/mL extract load and 709.13 ng/mL in bEnd.3 cell extract based on a 1.80 mg/mL extract load.



Cytometric bead array standard curve of MP01386-2, MOUSE VE-cadherin/CD144 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84529-3-PBS. Detection antibody: 84529-2-PBS. Standard: Eg0921. Range: 0.781-100 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 84529-3-RR against Mouse VE-cadherin were performed. The affinity constant is 1.22 nM.