

For Research Use Only

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

Catalog Number: 84529-3-PBS



## Basic Information

Catalog Number: 84529-3-PBS	GenBank Accession Number: NM_009868.4	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 12562	CloneNo.: 241953H6
Source: Rabbit	UNIPROT ID: P55284	
Isotype: IgG	Full Name: cadherin 5	
Immunogen Catalog Number: EG0921	Calculated MW: 88kDa	

## Applications

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

**Species Specificity:**  
mouse

## 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.  
**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:

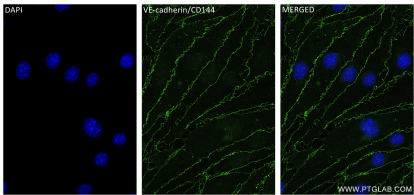
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

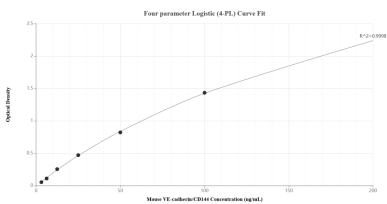
W: [ptgcn.com](http://ptgcn.com)

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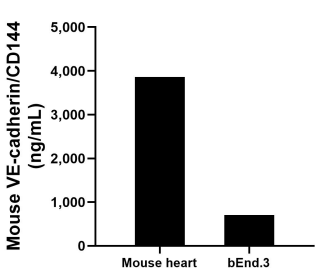
Selected Validation Data



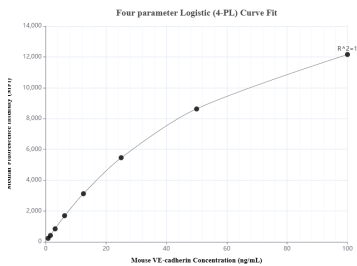
Immunofluorescent analysis of (4% PFA) fixed bEnd.3 cells using VE-cadherin antibody (84529-3-RR, Clone: 241953H6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84529-3-PBS in a different storage buffer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



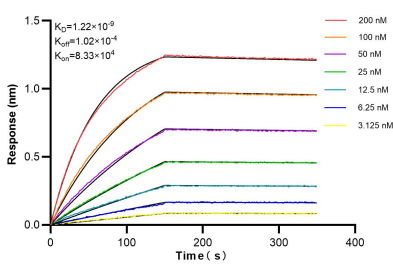
Sandwich ELISA standard curve of MP01386-3, Mouse VE-cadherin/CD144 Recombinant Matched Antibody Pair - PBS only. 84529-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg0921. 84529-6-PBS was HRP conjugated as the detection antibody. Range: 3.13-200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