

**Anti-VE Cadherin Picoband Antibody**  
**Catalog # ABO12991****Specification**

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**Anti-VE Cadherin Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P33151</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for VE Cadherin detection. Tested with WB, Direct ELISA in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-VE Cadherin Picoband Antibody - Additional Information**

**Gene ID** 1003

**Other Names**

Cadherin-5, 7B4 antigen, Vascular endothelial cadherin, VE-cadherin, CD144, CDH5

**Application Details**

Western blot, 0.1-0.5 µg/ml<br> Direct ELISA, 0.1-0.5 µg/ml<br>

**Subcellular Localization**

Cell junction.

**Tissue Specificity**

Endothelial tissues and brain.

**Contents**

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

E. coli-derived human VE Cadherin recombinant protein (Position: D48-R272).

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

**At -20°C; for one year. After r° Constitution, at 4°C; for one month. It°Can also be aliquotted and stored frozen at -20°C; for a longer time. Avoid repeated freezing and thawing.**

## Anti-VE Cadherin Picoband Antibody - Protein Information

**Name** CDH5

### Function

Cadherins are calcium-dependent cell adhesion proteins (By similarity). They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types (PubMed:<a href="http://www.uniprot.org/citations/21269602" target="\_blank">21269602</a>). This cadherin may play a important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions (By similarity). It associates with alpha-catenin forming a link to the cytoskeleton (PubMed:<a href="http://www.uniprot.org/citations/10861224" target="\_blank">10861224</a>). Acts in concert with KRIT1 and PALS1 to establish and maintain correct endothelial cell polarity and vascular lumen (By similarity). These effects are mediated by recruitment and activation of the Par polarity complex and RAP1B (PubMed:<a href="http://www.uniprot.org/citations/20332120" target="\_blank">20332120</a>). Required for activation of PRKCZ and for the localization of phosphorylated PRKCZ, PARD3, TIAM1 and RAP1B to the cell junction (PubMed:<a href="http://www.uniprot.org/citations/20332120" target="\_blank">20332120</a>).

### Cellular Location

Cell junction. Cell membrane; Single-pass type I membrane protein. Note=Found at cell-cell boundaries and probably at cell-matrix boundaries. KRIT1 and CDH5 reciprocally regulate their localization to endothelial cell-cell junctions.

### Tissue Location

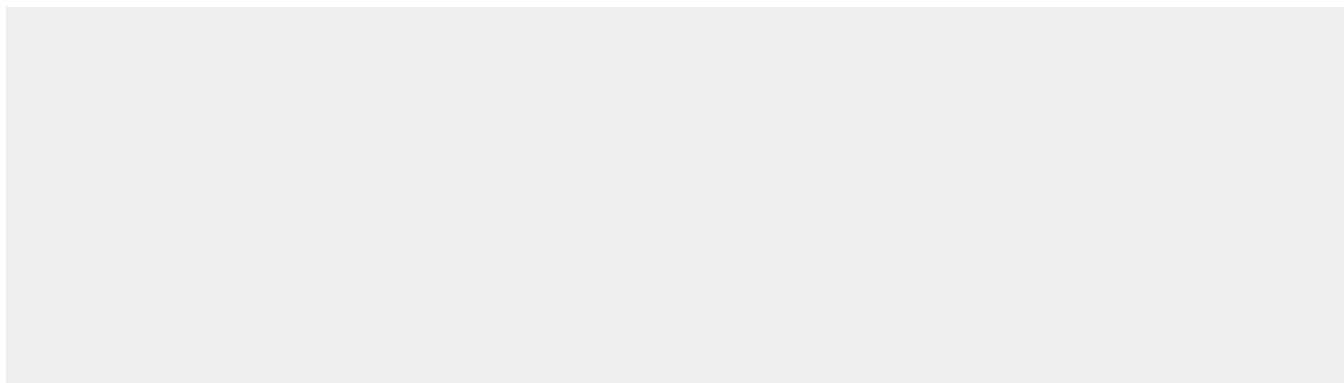
Endothelial tissues and brain.


## Anti-VE Cadherin Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-VE Cadherin Picoband Antibody - Images





kDa  
180-  
130-  
95-  
72-  
55-  
43-  
34-

Figure 1. Western blot analysis of VE Cadherin using anti-VE Cadherin antibody (ABO12991).

#### **Anti-VE Cadherin Picoband Antibody - Background**

CDH5 (Cadherin 5), also known as VE-cadherin, is a type of cadherin. It is encoded by the human gene CDH5. This gene is mapped to 16q22.1 using somatic cell hybrid panels. Functioning as a classic cadherin by imparting to cells the ability to adhere in a homophilic manner, the protein may play an important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. Therefore it was concluded that VE-cadherin serves the purpose of maintaining newly formed vessels.