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Rabbit Anti-CD144/VE Cadherin/AF350 Conjugated antibody

SL0878R-AF350

Product Name	Anti-CD144/VE Cadherin/AF350
Chinese Name	AF350 标记的上皮型钙粘附分子抗体
Alias	VE-cadherin; cadherin-5; VE-Cadherin;Cdh5; Vascular endothelial cadherin; 7B4 antigen; CD144 antigen; VECD; Vascular endothelial cell cadherin; 7B 4; 7B4; 7B4 antigen; Cadherin 5; Cadherin 5 type 2; Cadherin-5; Cadherin5; CD 144; CD144; CD144 antigen; CDH 5; CDH5; CDH5 protein; Vascular endothelial cadherin; Vascular epithelium cadherin; VE Cad antibody VE-cadherin; VE cadherin; VEC; CADH5_HUMAN.
Research Area	Tumour Cardiovascular immunology Signal transduction Cell adhesion molecule vascular endothelial cell epithelial cells endothelial cells Extracellular matrix
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human
Applications	Flow-Cyt=1μg /test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	86kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from mouse Vascular endothelial cell cadherin
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks

at 2-4 °C.

Product Detail

background:
This gene is a classical cadherin from the cadherin superfamily and is located in a six-cadherin cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. 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. An alternative splice variant has been described but its full length sequence has not been determined. [provided by RefSeq, Jul 2008].

Function:
Cadherins are calcium dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. This cadherin may play a important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. It associates with alpha-catenin forming a link to the cytoskeleton. Acts in concert with KRIT1 to establish and maintain correct endothelial cell polarity and vascular lumen. These effects are mediated by recruitment and activation of the Par polarity complex and RAP1B. Required for activation of PRKCZ and for the localization of phosphorylated PRKCZ, PARD3, TIAM1 and RAP1B to the cell junction.

Subunit:
Interacts via cadherin 5 domain with PTPRB. Interacts with TRPC4. Interacts with KRIT1.

Subcellular Location:
Cell junction. Cell membrane. Found at cell-cell boundaries and probably at cell-matrix boundaries.

Tissue Specificity:
Endothelial tissues and brain.

Post-translational modifications:
Phosphorylated on tyrosine residues by KDR/VEGFR-2. Dephosphorylated by PTPRB.

Similarity:
Contains 5 cadherin domains.

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Database links:

Entrez Gene: 1003 Human

Entrez Gene: 12562 Mouse

Entrez Gene: 307618 Rat

Omim: 601120 Human

SwissProt: P33151 Human

SwissProt: P55284 Mouse

Unigene: 76206 Human

Unigene: 21767 Mouse

Unigene: 224644 Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

血管内皮钙粘蛋白(Vascularendothelial cell cadherin;VE-cadherin;VECD),又名 CD144,Cadherin-5,是 AJ 连接（粘附连接）的主要粘附分子,是维持 vascular endothelial cell 极性和完整性必不可少的 endothelial cells 特异性钙粘蛋白.