

Rabbit Anti-CD144/VE Cadherin , Alexa Fluor® 680 conjugated antibody

SL0878R-AF680

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| Product Name | CD144/VE Cadherin, Bodipy Fluor 680 conjugated |
| Chinese Name | AF680 标记的血管内皮钙粘蛋白抗体 |
| Alias | VE-cadherin; 7B4 antigen; VECD; Vascular endothelial cell cadherin; 7B 4; 7B4; 7B4 antigen; Cadherin 5; Cadherin 5 type 2; Cadherin-5; Cadherin5; CD 144; CD144 antigen; CDH 5; CDH5; CDH5 protein; Vascular endothelial cadherin; VE Cad antibody VEC; CADH5_HUMAN. |
| 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. |
| Form | Liquid |
| Concentration | 1mg/ml |
| immunogen | KLH conjugated synthetic peptide derived from mouse Vascular endothelial cell cadherin: 601-700/784 <Cytoplasmic> |
| Lsotype | IgG |
| Purification | affinity purified by Protein A |
| Buffer Solution | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. |
| Storage | Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| Attention | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| PubMed | PubMed |
| Product Detail | 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.

SWISS:

P55284

Gene ID:

12562



Database links:

[Entrez Gene: 1003](#) Human

[Entrez Gene: 12562](#) Mouse

[Entrez Gene: 307618](#) Rat

[Omin: 601120](#) Human

[SwissProt: P33151](#) Human

[SwissProt: P55284](#) Mouse

[Unigene: 76206](#) Human

[Unigene: 21767](#) Mouse

[Unigene: 224644](#) Rat