

## ARG57926 anti-VE Cadherin antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes VE Cadherin   |
| Tested Reactivity   | Hu, Ms  |
| Tested Application  | WB  |
| Host                | Rabbit  |
| Clonality           | Polyclonal  |
| Isotype             | IgG   |
| Target Name         | VE Cadherin   |
| Species             | Human   |
| Immunogen           | Recombinant fusion protein corresponding to aa. 259-358 of Human VE-Cadherin (NP_001786.2).       |
| Conjugation         | Un-conjugated   |
| Alternate Names     | 7B4 antigen; 7B4; Cadherin-5; VE-cadherin; CD144; CD antigen CD144; Vascular endothelial cadherin |

### Application Instructions

|                   |  |                |
|-------------------|--|----------------|
| Application table | Application  | Dilution       |
|                   | WB   | 1:500 - 1:1000 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                |
| Positive Control  | A549   |                |

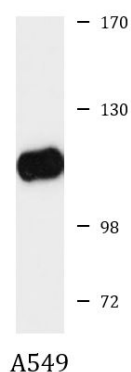
### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity purified.  |
| Buffer              | PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.  |
| Preservative        | 0.02% Sodium azide  |
| Stabilizer          | 50% Glycerol  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.  |

### Bioinformation

|                       |   |
|-----------------------|---|
| Gene Symbol           | CDH5  |
| Gene Full Name        | cadherin 5, type 2 (vascular endothelium)   |
| 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. [UniProt]                           |
| Calculated Mw         | 88 kDa (unmodified); 90 - 140 kDa (glycosylated)  |
| PTM                   | Phosphorylated on tyrosine residues by KDR/VEGFR-2. Dephosphorylated by PTPRB (By similarity).<br><br>O-glycosylated. [UniProt]   |
| Cellular Localization | Cell junction, Cell membrane, Single-pass type I membrane protein. [UniProt]  |

## Images



ARG57926 anti-VE Cadherin antibody WB image

Western blot: 25 µg of A549 cell lysate stained with ARG57926 anti-VE Cadherin antibody at 1:1000 dilution.