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Anti-VE-Cadherin Cdh5-Rabbit Monoclonal Antibody

Catalog # ABO14094

Product Information

Application	WB, IF, ICC, IP
Primary Accession	P55284
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-VE-Cadherin Cdh5-Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, IP applications. This antibody reacts with Mouse.

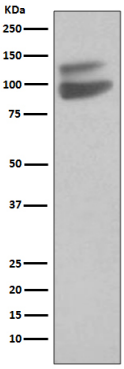
Additional Information

Gene ID	12562
Other Names	Cadherin-5 {ECO:0000312|MGI:MGI:105057}, Vascular endothelial cadherin, VE-cadherin, CD144, Cdh5 {ECO:0000312|MGI:MGI:105057}
Calculated MW	87903
Application Details	WB 1:500-1:1000 ICC/IF 1:500-1:1000 IP 1:50
Subcellular Localization	Cell junction. Cell membrane ; Single-pass type I membrane protein. Found at cell-cell boundaries and probably at cell-matrix boundaries. KRIT1 and CDH5 reciprocally regulate their localization to endothelial cell-cell junctions (By similarity)..
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: IIC-3
Immunogen	A synthesized peptide derived from mouse VE Cadherin
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	Cdh5 {ECO:0000312|MGI:MGI:105057}
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 (By similarity). This cadherin may play an important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions (PubMed:20332120, PubMed:9220534). It associates with alpha-catenin forming a link to the cytoskeleton (By similarity). Plays a role in coupling actin fibers to cell junctions in endothelial cells, via acting as a cell junctional complex anchor for AMOTL2 and MAGI1 (PubMed:24806444). Acts in concert with KRIT1 and PALS1 to establish and maintain correct endothelial cell polarity and vascular lumen (PubMed:27466317). These effects are mediated by recruitment and activation of the Par polarity complex and RAP1B (By similarity). Positively regulates reorientation of actin stress fibers and endothelial cell reorientation in response to cellular mechantransduction (By similarity). Required for activation of PRKCZ and for localization of phosphorylated PRKCZ, PARD3, TIAM1 and RAP1B to the cell junction (By similarity). Associates with CTNND1/p120-catenin to control CADH5 endocytosis (PubMed:33972531).
Cellular Location	Cell junction, adherens junction. Cell membrane; Single-pass type I membrane protein. Cytoplasm Note=Found at cell-cell boundaries and probably at cell-matrix boundaries. KRIT1 and CDH5 reciprocally regulate their localization to endothelial cell-cell junctions (By similarity) {ECO:0000250|UniProtKB:P33151}
Tissue Location	Expressed in postnatal endothelial cells of the retinal vascular plexus (at protein level)

Images



Western blot analysis of VE Cadherin expression in Mouse lung lysate.

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