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Anti-VE-Cadherin Cdh5-Rabbit Monoclonal Antibody

Catalog # ABO14094

Specification

Anti-VE-Cadherin Cdh5-Rabbit Monoclonal Antibody - 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.

Anti-VE-Cadherin Cdh5-Rabbit Monoclonal Antibody - 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 MW KDa

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)..

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.

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.**

Anti-VE-Cadherin Cdh5-Rabbit Monoclonal Antibody - 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). 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)

Anti-VE-Cadherin Cdh5-Rabbit Monoclonal 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 Cytomety
- Cell Culture

Anti-VE-Cadherin Cdh5-Rabbit Monoclonal Antibody - Images

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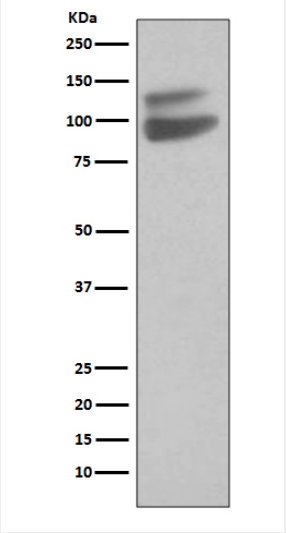

Western blot analysis of VE Cadherin expression in Mouse lung lysate.