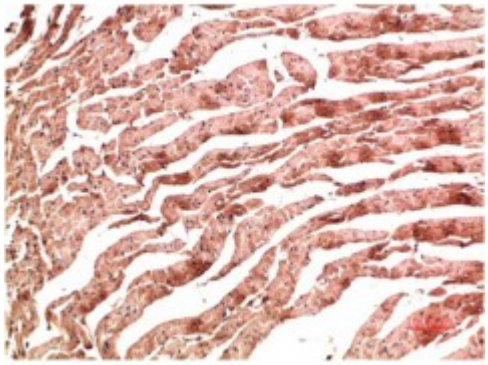
Anti-VE-Cadherin antibody



Description	Mouse monoclonal to VE-Cadherin.

Model	STJ98913
Host	Mouse
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	synthetic peptide derived from VE-Cadherin.
Gene ID	1003
Gene Symbol	CDH5
Dilution range	WB 1:500-2000ELISA 1:10000-20000
Specificity	The antibody detects endogenous VE-Cadherin protein.
Tissue Specificity	Endothelial tissues and brain.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Cadherin-5 7B4 antigen Vascular endothelial cadherin VE-cadherin CD antigen CD144
Molecular Weight	80-115kDa
Clonality	Monoclonal
Conjugation	Unconjugated

Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:1764OMIM:601120
Alternative Names	Cadherin-5 7B4 antigen Vascular endothelial cadherin VE-cadherin CD antigen CD144
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.
Sequence and Domain Family	Three calcium ions are usually bound at the interface of each cadherin domain and rigidify the connections, imparting a strong curvature to the full-length ectodomain.
Cellular Localization	Cell junction Cell membrane. Found at cell-cell boundaries and probably at cell-matrix boundaries. KRIT1 and CDH5 reciprocally regulate their localization to endothelial cell-cell junctions.
Post-translational Modifications	Phosphorylated on tyrosine residues by KDR/VEGFR-2. Dephosphorylated by PTPRB . O-glycosylated.