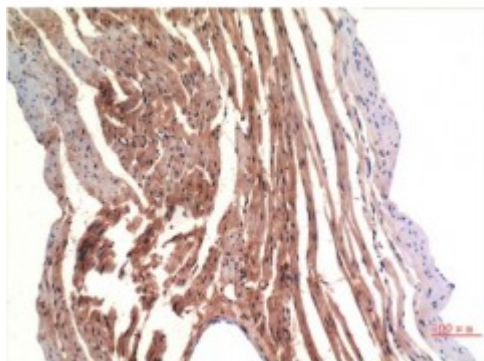


Anti-VE-Cadherin antibody



Description	Mouse monoclonal to VE-Cadherin.
Model	STJ97779
Host	Mouse
Reactivity	Human, Mouse, Rat
Applications	IHC
Immunogen	synthetic peptide derived from VE-Cadherin
Immunogen Region	670-750 aa
Gene ID	1003
Gene Symbol	CDH5
Dilution range	IHC 1:100-200
Specificity	VE-Cadherin Mouse Monoclonal Antibody (8E5) detects endogenous levels of CDH5
Tissue Specificity	Endothelial tissues and brain.
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Clone ID	800000
Note	For Research Use Only (RUO).
Protein Name	Cadherin-5 7B4 antigen Vascular endothelial cadherin VE-cadherin CD antigen CD144
Clonality	Monoclonal

Conjugation	Unconjugated
Isotype	IgG1
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.