

**VE-Cadherin mouse Monoclonal Antibody(3G8)**

<b>Catalog No :</b>	YM3762
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IHC;IF
<b>Target :</b>	VE-Cadherin
<b>Fields :</b>	>>Cell adhesion molecules;>>Leukocyte transendothelial migration;>>Fluid shear stress and atherosclerosis
<b>Gene Name :</b>	CDH5
<b>Protein Name :</b>	Cadherin-5 (7B4 antigen) (Vascular endothelial cadherin) (VE-cadherin) (CD antigen CD144)
<b>Human Gene Id :</b>	1003
<b>Human Swiss Prot No :</b>	P33151
<b>Mouse Swiss Prot No :</b>	P55284
<b>Immunogen :</b>	Synthetic Peptide of VE-Cadherin
<b>Specificity :</b>	The antibody detects endogenous VE-Cadherin protein
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	IHC 1:50-300. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 80-115kD

**Cell Pathway :** Cell adhesion molecules (CAMs);Leukocyte transendothelial migration;

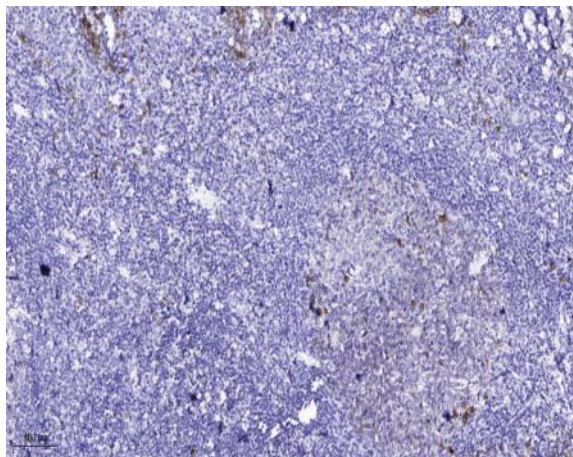
**Background :** This gene encodes a classical cadherin of the cadherin superfamily. The encoded preprotein is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion molecule is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Functioning as a classical cadherin by imparting to cells the ability to adhere in a homophilic manner, this protein plays a role in endothelial adherens junction assembly and maintenance. This gene is located in a gene cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. [provided by RefSeq, Nov 2015],

**Function :** function:Cadherins are calcium dependent cell adhesion proteins.,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.,similarity:Contains 5 cadherin domains.,subcellular location:Found at cell-cell boundaries and probably at cell-matrix boundaries.,tissue specificity:Endothelial tissues and brain.,

**Subcellular Location :** 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. .

**Expression :** Endothelial tissues and brain.

## Products Images



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).