

VE-Cadherin (phospho Tyr731) Polyclonal Antibody

Catalog No: YP0808

Reactivity: Human; Mouse

Applications: WB;IHC;IF;ELISA

Target: VE-Cadherin

Fields: >>Cell adhesion molecules;>>Leukocyte transendothelial migration;>>Fluid

shear stress and atherosclerosis

Gene Name: CDH5

Protein Name: Cadherin-5

P33151

P55284

Human Gene Id: 1003

Human Swiss Prot

No:

Mouse Gene Id: 12562

Mouse Swiss Prot

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

VE-Cadherin around the phosphorylation site of Tyr731. AA range:697-746

Specificity: Phospho-VE-Cadherin (Y731) Polyclonal Antibody detects endogenous levels of

VE-Cadherin protein only when phosphorylated at Y731.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

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Host:

Modifications:

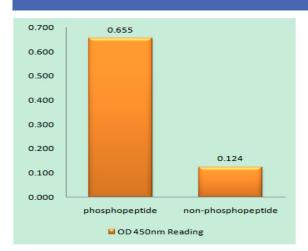
Rabbit

Phospho

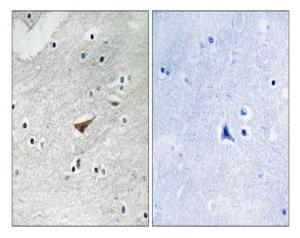
Best Tools for immunology Research **Concentration:** 1 mg/ml -15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability:** 130kD Observed Band: **Cell Pathway:** Cell adhesion molecules (CAMs);Leukocyte transendothelial migration; This gene encodes a classical cadherin of the cadherin superfamily. The **Background:** encoded preproprotein 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 RefSeg, 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 cellmatrix boundaries., tissue specificity: Endothelial tissues and brain., Subcellular Cell junction . Cell membrane ; Single-pass type I membrane protein . Found at cell-cell boundaries and probably at cell-matrix boundaries. KRIT1 and CDH5 Location: reciprocally regulate their localization to endothelial cell-cell junctions. . Endothelial tissues and brain. **Expression:** orthogonal Tag: Sort: No4:

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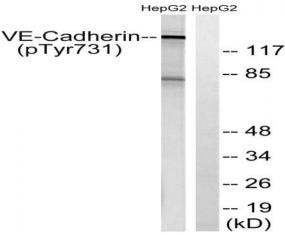
Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using VE-Cadherin (Phospho-Tyr731) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using VE-Cadherin (Phospho-Tyr731) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells treated with Na3VO4 0.3mM 40', using VE-Cadherin (Phospho-Tyr731) Antibody. The lane on the right is blocked with the phospho peptide.