

VE-Cadherin (phospho Tyr731) rabbit pAb**Cat#: orb767285 (Manual)**

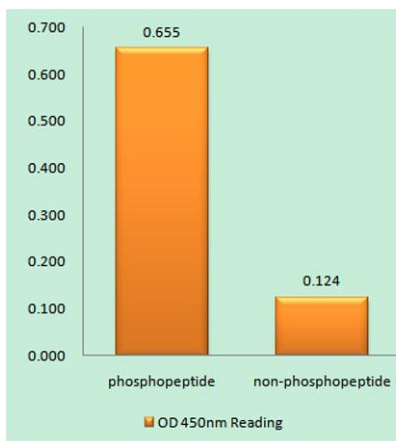
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Product Name	VE-Cadherin (phospho Tyr731) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
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..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Cadherin-5
Gene Name	CDH5
Cellular 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. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

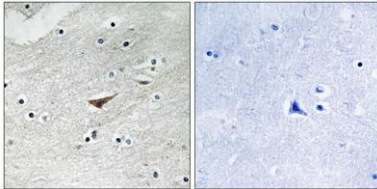
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	130kD
Human Gene ID	1003
Human Swiss-Prot Number	P33151
Alternative Names	CDH5; Cadherin-5; 7B4 antigen; Vascular endothelial cadherin; VE-cadherin; CD antigen CD144

Background

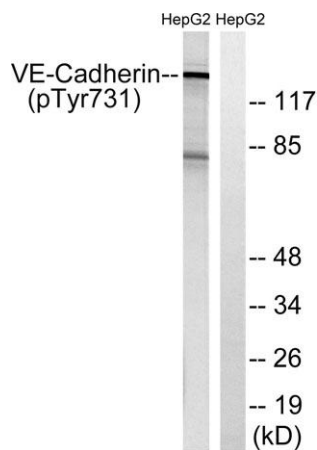
This gene encodes a classical cadherin of the cadherin superfamily. The encoded preproprotein is proteolytically processed to generate the mature glycoprotein. This calcium-dependent cell-cell adhesion molecule is comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved 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 RefSeq, Nov 2015],



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.