

Rabbit anti-Human, Mouse VE-Cadherin Polyclonal Antibody | anti-CDH5 antibody

Phospho-VE-Cadherin (Tyr731) Antibody

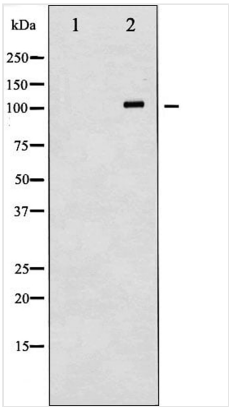
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321592	Rabbit	Human, Mouse	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

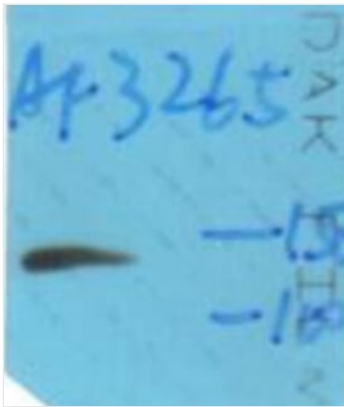
VE-Cadherin; Polyclonal Antibody; Phospho-VE-Cadherin (Tyr731) Antibody; 7B 4; 7B4; 7B4 antigen; CADH5_HUMAN; Cadherin 5; Cadherin 5 type 2; type 2 (vascular endothelium); type 2; VE cadherin (vascular epithelium); cadherin; vascular endothelial; 1; Cadherin-5; Cadherin5; CD 144; CD144; CD144 antigen; CDH 5; CDH5; CDH5 protein; Endothelial specific cadherin; FLJ17376; OTTHUMP00000174777; Vascular endothelial cadherin; Vascular epithelium cadherin; VE Cad; VE-cadherin; VEC; anti-CDH5 antibody

PRODUCT SPECIFICATIONS

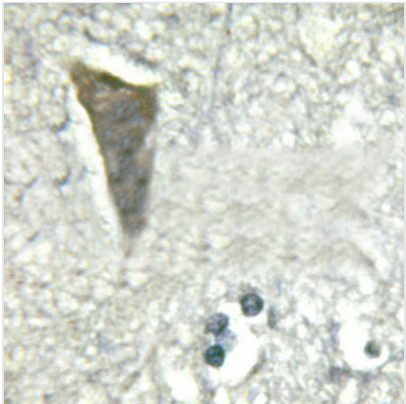
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-VE-Cadherin (Tyr731) antibody detects endogenous levels of VE-Cadherin only when phosphorylated at Tyrosine 731
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	784
Applicable Applications for anti-CDH5 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human VE-Cadherin around the phosphorylation site of Tyrosine 731
Subcellular Location	Cell Junction. Cell Membrane. Found at cell-cell boundaries and probably at cell-matrix boundaries.
Tissue Specificity	Endothelial tissues and brain.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Dog, Chicken
Similarity	Pig (83%), Zebrafish (92%), Bovine (92%), Horse (100%), Sheep (88%), Dog (92%), Chicken (92%)
Conjugation	Unconjugated
Epitope	Phospho Tyr731
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



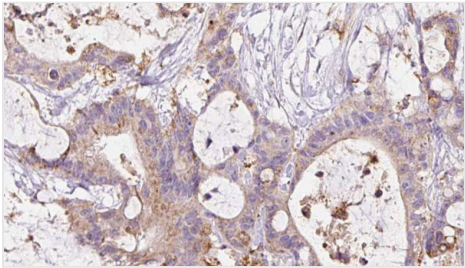
WB (Western Blot)
Western blot analysis of VE-Cadherin phosphorylation expression in Na3VO4 treated HepG2 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of Phospho-VE-Cadherin (Tyr731) Antibody expression in Na3VO4 treated HepG2 cells lysates. The lane on the right is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)
AAA321592 at 1/100 staining human brain tissues sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 34 degree C



IHC (Immunohistochemistry)
AAA321592 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-CDH5 antibody	Description: This gene is a classical cadherin from the cadherin superfamily and is located in a six-cadherin cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. 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. Subunit Structure: Interacts (via cadherin 5 domain) with PTPRB (By similarity). Interacts with TRPC4. Interacts with KRIT1. Interacts with PARD3 (By similarity). Post-translational Modifications: Phosphorylated on tyrosine residues by KDR/VEGFR-2. Dephosphorylated by PTPRB (By similarity). O-glycosylated. Similarity: 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.
---	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	166362713
NCBI GeneID	1003

NCBI Accession #	NP_001786.2
NCBI GenBank Nucleotide #	NM_001795.4
UniProt Accession #	P33151 ; Q4VAI5 ; Q4VAI6
Molecular Weight	Observed: 130 kDa Predicted: 88 kDa
NCBI Official Full Name	cadherin-5 preproprotein
NCBI Official Synonym Full Names	cadherin 5
NCBI Official Symbol	CDH5
NCBI Official Synonym Symbols	7B4; CD144
NCBI Protein Information	cadherin-5
UniProt Protein Name	Cadherin-5
UniProt Gene Name	CDH5
UniProt Synonym Gene Names	VE-cadherin

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/ve-cadherin-antibody-immunohistochemistry-western-blot-elisa/321592>