

ARG20567 anti-VE Cadherin phospho (Tyr685) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes VE Cadherin phospho (Tyr685)
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat
Tested Application	WB
Specificity	The purified antibody detects a ~140 kDa band corresponding to VE-cadherin in western blots of human endothelial cells treated with pervanadate, and this band is not detected in untreated cells or after alkaline phosphatase treatment. This sequence is not conserved in other cadherins.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	VE Cadherin
Species	Human
Immunogen	Phosphospecific peptide (coupled to carrier protein) around Tyr685 of Human VE-cadherin.
Conjugation	Un-conjugated
Alternate Names	7B4 antigen; 7B4; Cadherin-5; VE-cadherin; CD144; CD antigen CD144; Vascular endothelial cadherin

Application Instructions

Application table	Application	Dilution
	WB	1:1000
Application Note	WB: Antibody is suggested to be diluted in 5% skimmed milk/Tris buffer with 0.04% Tween20 and incubated for 1 hour at room temperature. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	140 kDa	

Properties

Purification	This antibody was pre-adsorbed with an unrelated phospho-tyrosine peptide and unphosphorylated VE-cadherin (Tyr685) peptide then affinity purified with immunogen peptide.
Buffer	PBS, 50% Glycerol, 1 mg/ml BSA and 0.05% Sodium azide
Preservative	0.05% Sodium azide
Stabilizer	50% Glycerol, 1 mg/ml BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

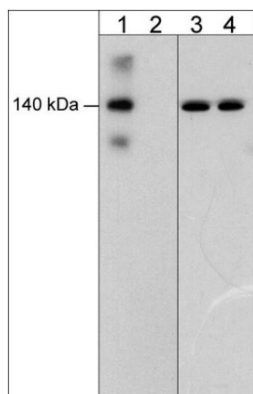
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 1003 Human Swiss-port # P33151 Human
Gene Symbol	CDH5
Gene Full Name	cadherin 5, type 2 (vascular endothelium)
Background	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. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Functioning as a classic cadherin by imparting to cells the ability to adhere in a homophilic manner, the protein may play an important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. An alternative splice variant has been described but its full length sequence has not been determined. [provided by RefSeq, Jul 2008]
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 an 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. [UniProt]
Research Area	Cancer antibody; Controls and Markers antibody; Signaling Transduction antibody
Calculated Mw	88 kDa (unmodified); 90 - 140 kDa (glycosylated)
PTM	Phosphorylated on tyrosine residues by KDR/VEGFR-2. Dephosphorylated by PTPRB (By similarity). O-glycosylated.

Images



ARG20567 anti-VE Cadherin phospho (Tyr685) antibody WB image

Western blot: Human umbilical vein endothelial cells stimulated with pervanadate (1 mM) for 30 min. then the blots were untreated (Lanes 1 & 3) or treated with alkaline phosphatase (Lanes 2 & 4). The blots were stained with ARG20567 anti-VE Cadherin phospho (Tyr685) antibody (Lanes 1 & 2) or Mouse monoclonal anti-VE-cadherin antibody (Lanes 3 & 4).