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530-758-4400

PRODUCT DATASHEET

Anti-VE-Cadherin (Tyr-685), Phosphospecific Antibody

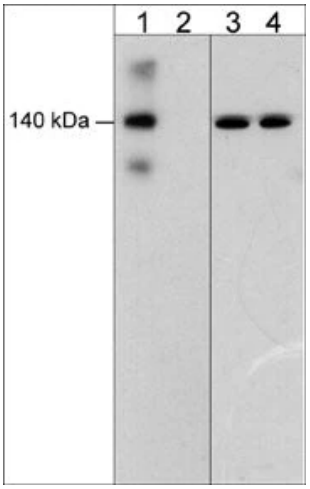
phosphosolutions ANTIBODIES THAT WORK

Product Details

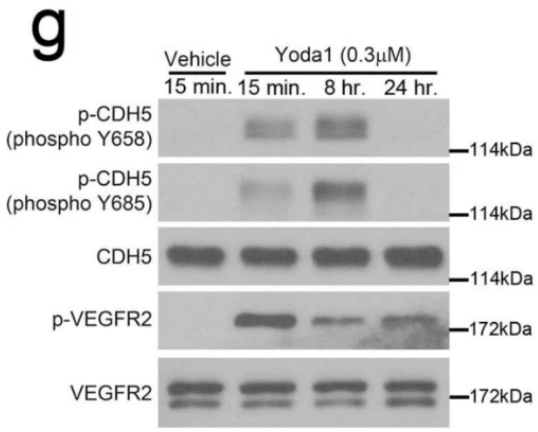
Available Variants	100 µL (SKU:CP1981)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	CDH5
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000
Species Reactivity	Human, Mouse, Rat
Immunogen	Phospho-VE-Cadherin (Tyr-685) synthetic peptide (coupled to carrier protein) corresponding to amino acids surrounding tyrosine 685 in human VE-cadherin. This sequence has significant homology to the conserved site in rat and mouse VE-cadherin, but is not conserved in other cadherins.
Specificity	This antibody was cross-adsorbed to an unrelated phospho-tyrosine peptide and unphosphorylated VE-cadherin (Tyr-685) peptide before affinity purification using phospho-VE-cadherin (Tyr-685) peptide. 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.
Molecular Weight	140
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at

	-20°C.
UniProt ID	P33151 UniProt Summary: 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. Plays a role in coupling actin fibers to cell junctions in endothelial cells, via acting as a cell junctional complex anchor for AMOTL2 and MAGI1. Acts in concert with KRIT1 and PALS1 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. Positively regulates reorientation of actin stress fibers and endothelial cell reorientation in response to cellular mechantransduction. Required for activation of PRKCZ and for the localization of phosphorylated PRKCZ, PARD3, TIAM1 and RAP1B to the cell junction. Associates with CTNND1/p120-catenin to control CADH5 endocytosis.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Tyr-685
NCBI Gene ID	1003

Product Images



Western blot image of 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 probed with rabbit polyclonal anti-VE-cadherin (Tyr-685) (lanes 1 & 2) or mouse monoclonal anti-VE-cadherin (lanes 3 & 4).



Phosphorylation of CDH5 Y658, CDH5 Y685 (Cat. CP1981) and VEGFR2 (Tyr1054/1059) in cultured human LECs after Yoda1 (0.3 μM) treatment for the indicated periods. Image from publication CC-BY-4.0. PMID: 38528202

Created on 30. October 2026 | All information without guarantee