VE-Cadherin (D87F2) XP[®] Rabbit mAb





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Applications: W, IP, IF-IC, FC-FP	Reactivity: H B Pg	Sensitivity: Endogenous	MW (kDa): 130-140	Source/Isotype: Rabbit IgG	UniProt ID: #P33151	Entrez-Gene Id: 1003
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence Flow Cytometry (Fixed		istry)		Dilution 1:1000 1:50 1:400 1:100
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.			rol and less than	
		For a carrier free (BSA	and azide free) ver	sion of this product see	product #78156.	
Specificity/Sens	sitivity			ognizes endogenous lev cadherin family proteins		erin protein. The
Source / Purific	ation	Monoclonal antibody i residues near the carb		unizing animals with a s man VE-cadherin.	synthetic peptide co	orresponding to
Background		Cadherins are a superfamily of transmembrane glycoproteins that contain cadherin repeats of approximately 100 residues in their extracellular domain. Cadherins mediate calcium-dependent cell-cell adhesion and play critical roles in normal tissue development (1). The classic cadherin subfamily includes N-, P-, R-, B-, and E-cadherins, as well as about ten other members that are found in adherens junctions, a cellular structure near the apical surface of polarized epithelial cells. The cytoplasmic domain of classical cadherins interacts with β -catenin, γ -catenin (also called plakoglobin), and p120 catenin. β -catenin and γ -catenin associate with α -catenin, which links the cadherin-catenin complex to the actin cytoskeleton (1,2). While β - and γ -catenin play structural roles in the junctional complex, p120 regulates cadherin adhesive activity and trafficking (1-4). Investigators consider E-cadherin an active suppressor of invasion and growth of many epithelial cancers (1-3). Research studies indicate that cancer cells have upregulated N-cadherin in addition to loss of E-cadherin. This change in cadherin expression is called the "cadherin switch." N-cadherin cooperates with the FGF receptor, leading to overexpression of MMP-9 and cellular invasion (3). Research studies have shown that in endothelial cells, VE-cadherin signaling, expression, and localization correlate with vascular permeability and tumor angiogenesis (5,6). Investigators have also demonstrated that expression of P-cadherin, which is normally present in epithelial cells, is also altered in ovarian and other human cancers (7,8).			n-dependent cell- lherin subfamily found in adherens e cytoplasmic obin), and p120 atenin complex to onal complex, p120 idherin an active s indicate that nge in cadherin otor, leading to it in endothelial meability and tumor erin, which is	
Background Re	ferences	2. Christofori, G. (2003 3. Hazan, R.B. et al. (20 4. Bryant, D.M. and Sto 5. Rabascio, C. et al. (2) <i>EMBO J</i> 22, 2318-2 004) <i>Ann N Y Acad S</i> 0w, J.L. (2004) <i>Trenc</i> 004) <i>Cancer Res</i> 64 : al. (2006) <i>Arterios</i> 3) <i>Int J Cancer</i> 106,	<i>5ci</i> 1014, 155-63. <i>Is Cell Biol</i> 14, 427-34. , 4373-7. <i>cler Thromb Vasc Biol</i> 26 172-7.		
Species Reactiv	ity	Species reactivity is de	termined by testing	g in at least one approve	d application (e.g.,	western blot).
Western Blot Bu	uffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted haking, overnight.	primary antibody i	n 5% w/v BSA, 1X
Applications Ke	y	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC- FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity	y Key	H: Human B: Bovine P	g: Pig			

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