ន្ត N-Cadherin (13A9) Mouse mAb





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Applications: W, IP, IHC-P, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Mouse IgG1	UniProt ID: #P19022	Entrez-Gene Id: 1000	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemisti Immunofluorescence		istry)		00	
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. <i>Do not aliquot the antibody</i> .			ol and less than		
Specificity/Sensitivity		N-Cadherin (13A9) Mouse mAb recognizes endogenous levels of total N-cadherin protein. This antibody does not cross-react with other cadherin proteins.					
Source / Purific	rce / Purification Monoclonal antibody is produced by immunizing animals with MBP-tagged recombinan specific to the cytoplasmic domains of human N-cadherin protein.		nant protein				
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).					
Background Re	eferences	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 <i>Ann N Y Acad</i> 2 <i>Ann N Y Acad</i> 2 <i>Sow</i>, J.L. (2004) <i>Trenc</i> <i>Cancer Res</i> 64 <i>Cancer Res</i> 64 <i>Cancer 106</i>, <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	vity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer			membrane with diluted with gentle shaking, ove		n 5% w/v nonfat	
Applications K	еу	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)		n) IF-IC:			
Cross-Reactivit	су Кеу	H: Human M: Mouse F	R: Rat Mk: Monkey				

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