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e at -20C	N-Cadherin (13A9) Mouse mAb		Cell Signaling TECHNOLOGY®
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IF-IC, ChIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Mouse IgG1	UniProt ID: #P19022	Entrez-Gene Id: 1000		
Product Usage Information	We	plication estern Blotting munoprecipitation munofluorescence (Ir	nmunocytochen	nistry)	Dilutio 1:1000 1:200 1:400			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>						
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 / Purification		Monoclonal antibody is produced by immunizing animals with MBP-tagged recombinant protein specific to the cytoplasmic domains of human N-cadherin protein.						
Background	appi adh N-, I cellu cadl cate Whi activ of m in ac cadl Res corr that	roximately 100 residu esion and play critica P-, R-, B-, and E-cad ular structure near the herins interacts with α - enin associate with α - ile β - and y-catenin pl vity and trafficking (1- nany epithelial cancer ddition to loss of E-ca herin cooperates with search studies have s relate with vascular po	ues in their extra l roles in norma herins, as well a e apical surface 3-catenin, γ-cate catenin, which I lay structural rol -4). Investigators rs (1-3). Researd adherin. This cha her FGF recep hown that in end ermeability and herin, which is n	nbrane glycoproteins the accellular domain. Cadhe I tissue development (1) as about ten other memt of polarized epithelial c enin (also called plakogl inks the cadherin-cateni es in the junctional com s consider E-cadherin a ch studies indicate that of ange in cadherin express tor, leading to overexpres tor, leading to overexpres tumor angiogenesis (5,6 ormally present in epith	rins mediate calcium-de . The classic cadherin bers that are found in a ells. The cytoplasmic de obin), and p120 catenir n complex to the actin plex, p120 regulates can n active suppressor of i cancer cells have upregent ision is called the "cadh desion of MMP-9 and caterin signaling, expression b). Investigators have a	ependent cell-cell subfamily includes dherens junctions, a omain of classical n. β-catenin and γ- cytoskeleton (1,2). adherin adhesive invasion and growth gulated N-cadherin herin switch." N- ellular invasion (3). on, and localization lso demonstrated		
Background Refere	2. C 3. H 4. B 5. R 6. Ya 7. P	christofori, G. (2003) <i>L</i> lazan, R.B. et al. (200 ryant, D.M. and Stow cabascio, C. et al. (20	EMBO J 22, 231 04) Ann N Y Aca 1, J.L. (2004) Tre 04) Cancer Res I. (2006) Arterio Int J Cancer 10	nd Sci 1014, 155-63. 2nds Cell Biol 14, 427-34 264, 4373-7. 3cler Thromb Vasc Biol 26, 172-7.	4.			
Species Reactivity	Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key		WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) ChIP: Chromatin IP						
Cross-Reactivity Ke	ey							

1/1/24, 9:13 AM	N-Cadherin (13A9) Mouse mAb (#14215) Datasheet Without Images Cell Signaling Technology H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected			
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