E-Cadherin (32A8) Mouse mAb





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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 135	Source/Isotype: Mouse IgG1	UniProt ID: #P12830	Entrez-Gene Id: 999	
Product Usage Information Storage	2	Application Western Blotting Immunoprecipitation Supplied in 10 mM soc	dium HEPES (pH 7.5	5), 150 mM NaCl, 100 µg,	Dilution 1:1000 1:200 /ml BSA, 50% glycer	ol and less than	
-		0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity/Ser	-	E-Cadherin (32A8) Mouse mAb detects endogenous levels of total E-cadherin protein.					
Source / Purifi	ication	Monoclonal antibody is produced by immunizing animals with human cancer cell lines. E-Cadherin (32A8) Mouse mAb recognizes an epitope in the extracellular region of E-cadherin.					
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 play structural roles in the junctional complex, p120 regulates cadherin adherive 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 corperates 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 R	eferences	 Wheelock, M.J. and Johnson, K.R. (2003) <i>Annu Rev Cell Dev Biol</i> 19, 207-35. Christofori, G. (2003) <i>EMBO J</i> 22, 2318-23. Hazan, R.B. et al. (2004) <i>Ann N Y Acad Sci</i> 1014, 155-63. Bryant, D.M. and Stow, J.L. (2004) <i>Trends Cell Biol</i> 14, 427-34. Rabascio, C. et al. (2004) <i>Cancer Res</i> 64, 4373-7. Yamaoka-Tojo, M. et al. (2006) <i>Arterioscler Thromb Vasc Biol</i> 26, 1991-7. Patel, I.S. et al. (2003) <i>Int J Cancer</i> 106, 172-7. Sanders, D.S. et al. (2000) <i>J Pathol</i> 190, 526-30. 					
Species Reacti	ivity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot I	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				ר 5% w/v BSA, 1X	
Applications K	(ey	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivi	ity Key	H: Human					
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