Social So	in (24E10	E10) Rabbit mAb				CHNOLOGY* 877-616-CELL (2355) orders@cellsignal.com	
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95					Support:	877-678-TECH (8324)	
#3195					Web:	info@cellsignal.com cellsignal.com	
				3 Trask L	ane Danvers Mas	sachusetts 01923 USA	
For Research Use Only	Not for Use in	_	edures.				
Applications: WB, W-S, IHC-Bond, IHC-P, IF-IC, FC-FP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 135	Source/Isotype: Rabbit IgG	UniProt ID: #P12830	Entrez-Gene Id: 999	
Product Usage	A	oplication	Dilu	ıtion			
Information	W	Western Blotting				1:1000	
	Si	Simple Western™				1:10 - 1:50	
	ІН	C Leica Bond			1:40	00 - 1:1600	
	Im	munohistochemistry	(Paraffin)		1:40	00	
	Im	munofluorescence (I	mmunocytochem	nistry)	1:16	500	
	FI	ow Cytometry (Fixed	/Permeabilized)		1:10	00 - 1:400	
Storage	0.0	2% sodium azide. St	ore at –20°C. Do	7.5), 150 mM NaCl, 100 not aliquot the antibody	Ι.	cerol and less than	
	Foi	r a carrier-free (BSA a	and Azide Free) \	version of this product se	ee product #96743.		
Specificity / Sensitivity		E-Cadherin (24E10) Rabbit mAb detects endogenous levels of total E-cadherin protein. The antibody does not cross-react with related family members, such as N-cadherin.					
Species predicted react based on 100 sequence homolo	0%	vine, Dog, Pig					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro780 of human E-cadherin 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, y-catenin (also called plakoglobin), and p120 catenin. β -catenin and y-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 incate 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).					

1/1	./24, 3:23 PM Background Reference	 E-Cadherin (24E10) Rabbit mAb (#3195) Datasheet Without Images Cell Signaling Technology 1. Wheelock, M.J. and Johnson, K.R. (2003) Annu Rev Cell Dev Biol 19, 207-35. 2. Christofori, G. (2003) EMBO J 22, 2318-23. 3. Hazan, R.B. et al. (2004) Ann N Y Acad Sci 1014, 155-63. 4. Bryant, D.M. and Stow, J.L. (2004) Trends Cell Biol 14, 427-34. 5. Rabascio, C. et al. (2004) Cancer Res 64, 4373-7. 6. Yamaoka-Tojo, M. et al. (2006) Arterioscler Thromb Vasc Biol 26, 1991-7. 7. Patel, I.S. et al. (2003) Int J Cancer 106, 172-7. 8. Sanders, D.S. et al. (2000) J Pathol 190, 526-30.
	Species Reactivity	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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
	Applications Key	WB: Western Blotting W-S: Simple Western™ IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
	Cross-Reactivity Key	 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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