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## β-Catenin Antibody (Amino-terminal Antigen)



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<b>Applications:</b> W, IP, ChIP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 92	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P35222	Entrez-Gene Id: 1499		
Product Usage Information		For optimal ChIP results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 <sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP <sup>®</sup> Enzymatic Chromatin IP Kits.						
		<b>Application</b> Western Blotting Immunoprecipitation Chromatin IP			<b>Dilution</b> 1:1000 1:400 1:50			
Storage	<b>rage</b> Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Sto 20°C. Do not aliquot the antibody.				/cerol. Store at –			
Specificity/Sensitivity		Beta-Catenin Antibody detects endogenous levels of total $\beta$ -catenin protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp56 of human $\beta$ -catenin. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		β-catenin is a key downstream effector in the Wnt signaling pathway (1). It is implicated in two major biological processes in vertebrates: early embryonic development (2) and tumorigenesis (3). CK1 phosphorylates β-catenin at Ser45. This phosphorylation event primes β-catenin for subsequent phosphorylation by GSK-3β (4-6). GSK-3β destabilizes β-catenin by phosphorylating it at Ser33, Ser37, and Thr41 (7). Mutations at these sites result in the stabilization of β-catenin protein levels and have been found in many tumor cell lines (8).						
Background Re	eferences	1. Cadigan, K.M. and Nusse, R. (1997) <i>Genes Dev</i> 11, 3286-3305. 2. Wodarz, A. and Nusse, R. (1998) <i>Annu Rev Cell Dev Biol</i> 14, 59-88. 3. Polakis, P. (1999) <i>Curr Opin Genet Dev</i> 9, 15-21. 4. Amit, S. et al. (2002) <i>Genes Dev</i> 16, 1066-76. 5. Liu, C. et al. (2002) <i>Cell</i> 108, 837-47. 6. Yanagawa, S. et al. (2002) <i>EMBO J</i> 21, 1733-42. 7. Yost, C. et al. (1996) <i>Genes Dev</i> 10, 1443-54. 8. Morin, P.J. et al. (1997) <i>Science</i> 275, 1787-90.						
Species Reactiv	/ity	Species reactivity is det	ermined by testing	g in at least one approve	d application (e.g.,	western blot).		
Western Blot B	uffer	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.				1 5% w/v BSA, 1X		
Applications Ke	ey	W: Western Blotting IP: Immunoprecipitation ChIP: Chromatin IP						
Cross-Reactivity Key H: Human M		H: Human M: Mouse R:	: Rat <b>Mk:</b> Monkey					
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