Phospho-β-Catenin (Ser33/37) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 92	Source/Isotype: Rabbit	UniProt ID: #P35222	Entrez-Gene Id: 1499	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sen	sitivity	Phospho-β-Catenin (Ser33/37) Antibody detects endogenous levels of β-catenin only when phosphorylated at Ser33 and Ser37.					
Species predict based on 100% homology		Mouse, Rat, Xenopus, z	Zebrafish				
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser33 and Ser37 of human β-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 N 2. Wodarz, A. and Nuss 3. Polakis, P. (1999) <i>Cur</i> 4. Amit, S. et al. (2002) 5. Liu, C. et al. (2002) C 6. Yanagawa, S. et al. (2 7. Yost, C. et al. (1995) 8. Morin, P.J. et al. (1997)	e, R. (1998) Annu I r Opin Genet Dev Genes Dev 16, 106 ell 108, 837-47. 2002) EMBO J 21, 1 Genes Dev 10, 144	Rev Cell Dev Biol 14, 59-8 9, 15-21. 6-76. 733-42. 3-54.	8.		
Species Reactiv	vity	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.					
Applications Ke	ey	W: Western Blotting IP	: Immunoprecipita	tion			
Cross-Reactivit	у Кеу	H: Human					
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