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Phospho-β-Catenin (Ser552) (D8E11) Rabbit mAb



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W. IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 92	Source/Isotype: Rabbit IgG	UniProt ID: #P35222	Entrez-Gene Id: 1499	
Product Usage Information	1	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:200		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sen	sitivity	Phospho-β-Catenin (Ser552) (D8E11) Rabbit mAb detects endogenous levels of β-catenin protein only when phosphorylated at Ser552.					
Species predict based on 100% homology		Rat, Xenopus, Zebrafis	h				
Source / Purific	cation	Monoclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser552 of human β -catenin protein.					
Background	eferences	 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). Both Akt and PKA were shown to phosphorylate β-catenin at Ser552. Phosphorylation at Ser552 induces β-catenin accumulation in the nucleus and increases its transcriptional activity (9-11). 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. 					
		9. Taurin, S. et al. (2006) 10. Fang, D. et al. (2007) 11. He, X.C. et al. (2007)	5) <i>J Biol Chem</i> 281, 7) <i>J Biol Chem</i> 282,	9971-9976. 11221-11229.			
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	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 K	ey	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivit	ty Key	H: Human M: Mouse					
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