V07-TerrorgAcetyl-β-Catenin (Lys49) (D7C2) Rabbit
mAb0206#



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Applications: W, IP	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 92	Source/Isotype: Rabbit IgG	UniProt ID: #P35222	Entrez-Gene Id: 1499		
Product Usage Information		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 thar 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				ol and less than		
Specificity/Sen	sitivity	Acetyl-β-Catenin (Lys49) (D7C2) Rabbit mAb recognizes endogenous levels of β-catenin protein only when acetylated at Lys49.						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic acetylated peptide corresponding to residues surrounding Lys49 of human β -catenin protein.						
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-3 β (4-6). GSK-3 β 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).						
		Lys49 lies in a region that contains several Ser/Thr residues whose phosphorylation status regulates the stability of β-catenin. Research studies have shown that Lys49 is one of few residues frequently mutated in thyroid anaplastic carcinoma (9). CREB-binding protein (CBP) binds and acetylates β-catenin at Lys49 (10,11).						
Background Re	eferences	 Cadigan, K.M. and Nusse, R. (1997) <i>Genes Dev</i> 11, 3286-3305. Wodarz, A. and Nusse, R. (1998) <i>Annu Rev Cell Dev Biol</i> 14, 59-88. Polakis, P. (1999) <i>Curr Opin Genet Dev</i> 9, 15-21. Amit, S. et al. (2002) <i>Genes Dev</i> 16, 1066-76. Liu, C. et al. (2002) <i>Cell</i> 108, 837-47. Yanagawa, S. et al. (2002) <i>EMBO J</i> 21, 1733-42. Yost, C. et al. (1996) <i>Genes Dev</i> 10, 1443-54. Morin, P.J. et al. (1997) <i>Science</i> 275, 1787-90. Polakis, P. (2000) <i>Genes Dev</i> 14, 1837-51. Takemaru, K.I. and Moon, R.T. (2000) <i>J Cell Biol</i> 149, 249-54. Wolf, D. et al. (2002) <i>J Biol Chem</i> 277, 25562-7. 						
Species Reactiv	vity	Species reactivity is det	ermined 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.				ו 5% w/v BSA, 1X		
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human M: Mouse Mk: Monkey						
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