Store at -20C

Acetyl-β-Catenin (Lys49) (D7C2) Rabbit mAb



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Applications: WB, 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			Dilution		
	We	estern Blotting		1:1000		
	Im	munoprecipitation		1:200		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.				
Specificity / Sensiti		Acetyl- β -Catenin (Lys49) (D7C2) Rabbit mAb recognizes endogenous levels of β -catenin protein only when acetylated at Lys49.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic acetylated peptide corresponding to residues surrounding Lys49 of human β -catenin protein.				
Background	biolo pho pho and four Lysa stat	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 Refere	2. W 3. P 4. A 5. L 6. Y 7. Y 8. M 9. P 10. Ti	Vodarz, A. and Nuss olakis, P. (1999) Cu mit, S. et al. (2002) iu, C. et al. (2002) C anagawa, S. et al. (3005) ost, C. et al. (1996) lorin, P.J. et al. (1996) olakis, P. (2000) Ge akemaru, K.I. and M	sse, R. (1997) Genes Dev 11, 3286-3305. , R. (1998) Annu Rev Cell Dev Biol 14, 59-88. Copin Genet Dev 9, 15-21. Genes Dev 16, 1066-76. Coll 108, 837-47. Coll 202) EMBO J 21, 1733-42. Genes Dev 10, 1443-54. Coll 302 Science 275, 1787-90. Coll 4, 1837-51. Coll 5, 1787-51. Coll 6, R.T. (2000) J Cell Biol 149, 249-54. Coll 6, Biol Chem 277, 25562-7.			

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 IP: Immunoprecipitation

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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