

## 9534

## Acetyl-β-Catenin (Lys49) Antibody



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

Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 92	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P35222	Entrez-Gene Id: 1499
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Acetyl- $\beta$ -Catenin (Lys49) Antibody detects endogenous $\beta$ -catenin only when acetylated at Lys49.				
Species predicted to react based on 100% sequence homology		Mouse, Rat, Pig				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic acetylated peptide corresponding to residues surrounding Lys49 of human $\beta$ -catenin. Antibodies were purified by protein A and peptide affinity chromatography.				
Background		$\beta$ -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 $\beta$ -catenin at Ser45. This phosphorylation event primes $\beta$ -catenin for subsequent phosphorylation by GSK-3 $\beta$ (4-6). GSK-3 $\beta$ destabilizes $\beta$ -catenin by phosphorylating it at Ser33, Ser37, and Thr41 (7). Mutations at these sites result in the stabilization of $\beta$ -catenin protein levels and have been found in many tumor cell lines (8).				
		the stability of β-caten	in and is one of few	al Ser/Thr residues whos v residues frequently mo l acetylates β-catenin at	utated in thyroid an	
Background References		<ol> <li>Cadigan, K.M. and Nusse, R. (1997) Genes Dev 11, 3286-3305.</li> <li>Wodarz, A. and Nusse, R. (1998) Annu Rev Cell Dev Biol 14, 59-88.</li> <li>Polakis, P. (1999) Curr Opin Genet Dev 9, 15-21.</li> <li>Amit, S. et al. (2002) Genes Dev 16, 1066-76.</li> <li>Liu, C. et al. (2002) Cell 108, 837-47.</li> <li>Yanagawa, S. et al. (2002) EMBO J 21, 1733-42.</li> <li>Yost, C. et al. (1996) Genes Dev 10, 1443-54.</li> <li>Morin, P.J. et al. (1997) Science 275, 1787-90.</li> <li>Polakis, P. (2000) Genes Dev. 14, 1837-5181.</li> <li>Takemaru, K.I. and Moon, R.T. (2000) J. Cell Biol. 149, 249-254.</li> <li>Wolf, D. et al. (2002) J. Biol. Chem. 277, 25562-25567.</li> </ol>				
Species Reactiv	ity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
W		MARCHANIT E				

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 W: Western Blotting

Cross-Reactivity Key H: Human

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