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β-Catenin Antibody (Aminoterminal Antigen)



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Applications: WB, IP, ChIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 92	Source: Rabbit	UniProt ID: #P35222	Entrez-Gene Id: 1499
Product Usage Information	For optimal ChIP results, use 10 μ I of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.					
	Application			Dilution		
	Western Blotting			1:1000		
	Immunoprecipitation			1:400		
	Chromatin IP			1:50		
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at –					

Specificity / Sensitivity

Beta-Catenin Antibody detects endogenous levels of total β-catenin protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp56 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-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).

Background References

- 1. Cadigan, K.M. and Nusse, R. (1997) *Genes Dev* 11, 3286-3305.
- 2. Wodarz, A. and Nusse, R. (1998) Annu Rev Cell Dev Biol 14, 59-88.
- 3. Polakis, P. (1999) Curr Opin Genet Dev 9, 15-21.
- 4. Amit, S. et al. (2002) Genes Dev 16, 1066-76.
- 5. Liu, C. et al. (2002) Cell 108, 837-47.

20°C. Do not aliquot the antibody.

- 6. Yanagawa, S. et al. (2002) *EMBO J* 21, 1733-42.
- 7. Yost, C. et al. (1996) *Genes Dev* 10, 1443-54. 8. Morin, P.J. et al. (1997) *Science* 275, 1787-90.

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 ChIP: Chromatin IP

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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