Non-phospho (Active) β-Catenin (Ser33/37/Thr41) Antibody



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

| Applications: WB | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 92 | Source: Rabbit | UniProt ID: #P35222 | Entrez-Gene Id: 1499 | |
|---|--|---|---|-------------------|------------------------|-------------------------|--|
| Product Usage Information | Ар | plication | | Dilution | | | |
| IIIIOIIIIauoii | We | estern Blotting | | 1:1000 | | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody. | | | | | |
| Specificity / Sensiti | resi pho pho | Non-phospho (Active) β -Catenin (Ser33/37/Thr41) Antibody recognizes endogenous β -Catenin when residues Ser33, Ser37, and Thr41 are not phosphorylated. It does not detect β -Catenin if triphosphorylated at Ser33/Ser37/Thr41. This antibody may also detect β -Catenin protein when singly phosphorylated at Ser33. This specificity data was derived from competition ELISA and dot blot analysis using synthetic peptides. | | | | | |
| Species predicted t react based on 1009 sequence homology | % | cken, Xenopus, Zeb | orafish, Dog | | | | |
| Source / Purification | resi | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser37 of human β -catenin. Antibodies are purified by protein A and peptide affinity chromatography. | | | | | |
| Background | biol pho pho and | 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 Refere | 2. W 3. P 4. A 5. L 6. Y 7. Y | Vodarz, A. and Nuss olakis, P. (1999) Cu .mit, S. et al. (2002) iu, C. et al. (2002) C anagawa, S. et al. (ost, C. et al. (1996) | sse, R. (1997) Genes Dev 11, 3286-3305. e, R. (1998) Annu Rev Cell Dev Biol 14, 59-88. r Opin Genet Dev 9, 15-21. Genes Dev 16, 1066-76. ell 108, 837-47. 002) EMBO J 21, 1733-42. Genes Dev 10, 1443-54. ell 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

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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