Phospho-β-Catenin (Ser33/37) Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

Applicatons | Species Cross-Reactivity* | Molecular Wt. | Source | Source/Purification:
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W, IP | Endogenous | 92 kDa | Rabbit** | Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser33 and Ser37 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 on Ser45. This phosphorylation event primes β-catenin for subsequent phosphorylation by GSK-3 (4-6). GSK-3β destabilizes β-catenin by phosphorylating it at Ser33, Ser37 and Thr41 (7). Mutations in these phosphorylation sites, which result in the stabilization of β-catenin protein levels, have been found in many tumor cell lines (8).

Specificity/Sensitivity: Phospho-β-Catenin (Ser33/37) Antibody detects endogenous levels of β-catenin only when phosphorylated at Ser33 and Ser37.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser33 and Ser37 of human β-catenin. Antibodies are purified by protein A and peptide affinity chromatography.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

** Species cross-reactivity is determined by western blot.

Recommended Antibody Dilutions:
Western blotting 1:1000
Immunoprecipitation 1:50

For application specific protocols please see the web page for this product at www.cellsignal.com.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western, IP—Immunoprecipitation, IHC—Immunohistochemistry, ChIP—Chromatin Immunoprecipitation, IF—Immunofluorescence, F—Flow cytometry, E-P—ELISA-Peptide

Species Cross-Reactivity Key: H—human, M—mouse, R—rat, Hm—hamster, Mk—monkey, 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

Species encased in parentheses are predicted to react based on 100% homology.