

β-Catenin (D10A8) XP® Rabbit mAb (Sepharose® Bead Conjugate)

✓ 400 µl
 (40 immunoprecipitations)



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

Entrez-Gene ID #1499
 UniProt ID #P35222

Applications IP Endogenous	Species Cross-Reactivity* H, M, R, Mk, (Z, B, Pg, Hr)	Molecular Wt. 92 kDa	Isotype Rabbit IgG
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Description: This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose® beads. β-Catenin (D10A8) XP® Rabbit mAb (Sepharose® Bead Conjugate) is useful for the immunoprecipitation of β-catenin. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated β-Catenin (D10A8) XP® Rabbit mAb #8480.

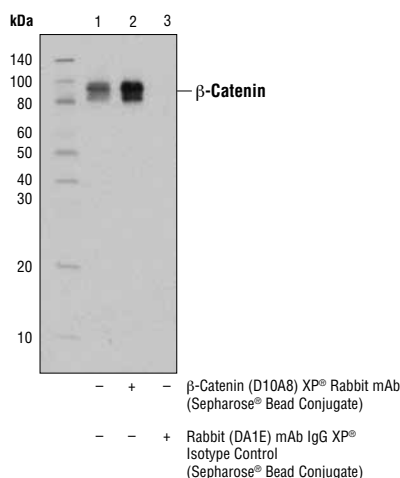
Background: β-Catenin is a key downstream effector in the Wnt signaling pathway (1). It is implicated in two major biological processes in vertebrates: early embryonic development (2) and tumorigenesis (3). CK1 phosphorylates β-catenin at Ser45. This phosphorylation event primes β-catenin for subsequent phosphorylation by GSK-3β (4-6). GSK-3β 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).

Specificity/Sensitivity: β-Catenin (D10A8) XP® Rabbit mAb (Sepharose® Bead Conjugate) recognizes endogenous levels of total β-catenin protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro714 of human β-catenin protein

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, 1066-1076.
- (5) Lin, C. et al. (2002) *Cell* 108, 837-847.
- (6) Yanagawa, S. et al. (2002) *EMBO J.* 21, 1733-1742.
- (7) Yost, C. et al. (1996) *Genes Dev.* 10, 1443-1454.
- (8) Morin, P.J. (1997) *Science* 275, 1787-1790.



Immunoprecipitation of β-catenin from HeLa cell extracts using Rabbit (DA1E) mAb IgG XP® Isotype Control (Sepharose® Bead Conjugate) #3423 (lane 3) and β-Catenin (D10A8) XP® Rabbit mAb (Sepharose® Bead Conjugate) (lane 2). Lane 1 is 10% input. Western blot analysis was performed using β-Catenin (L87A12) Mouse mAb #2698.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot using the unconjugated antibody.**

Recommended Antibody Dilutions:

Immunoprecipitation 1:20

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

Please visit www.cellsignal.com for a complete listing of recommended companion products.

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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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.