β-Catenin (6B3) Rabbit mAb

Applications:
- WB, IP, IHC, IHC

Reactivity:
- H M R Mk

Sensitivity:
- Endogenous

MW (kDa):
- 92

Source/Isotype:
- Rabbit IgG

UniProt ID:
- P35222

Entrez-Gene Id:
- 1499

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

Product Usage Information

Application | Dilution |
---|---|
Western Blotting | 1:1000 |
Immunoprecipitation | 1:50 |
Immunohistochemistry (Paraffin) | 1:100 |
Immunohistochemistry (Frozen) | 1:100 |

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.

Specificity / Sensitivity

β-Catenin (6B3) Rabbit mAb detects endogenous levels of total β-catenin.

Species Reactivity:
- Human, Mouse, Rat, Monkey

Species predicted to react based on 100% sequence homology:
- Xenopus, Bovine, Dog, Pig, Horse

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human β-catenin.

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).


IMPORTANT: For western blots, we recommend incubating the membrane with diluted antibody at 4°C with gentle shaking overnight. Please refer to the product-specific protocol for our antibody dilution recommendation.

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Species reactivity is determined by testing in at least one approved application (e.g., western blot).

APPLICATIONS KEY
- WB: Western Blot
- IP: Immunoprecipitation
- H: Human
- M: Mouse
- R: Rat
- H: Hamster
- M: Monkey
- M: Mink
- C: Chicken
- Dm: D. melanogaster
- X: Xenopus
- Z: Zebrafish
- B: Bovine
- Dp: Dog
- Pp: Pig
- Sc: S. cerevisiae
- Ca: C. elegans
- H: Horse
- All: all species expected

CROSS-REACTIVITY KEY
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https://www.cellsignal.com/datasheet.jsp?productId=9582&images=0&protocol=0