Non-phospho (Active) β-Catenin (Ser33/37/Thr41) (D13A1) Rabbit mAb (PE Conjugate)



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Entrez-Gene Id: Applications: Reactivity: Sensitivity: Source/Isotype: **UniProt ID:** FC-FP HMRMk Endogenous Rabbit IgG #P35222 1499 **Product Usage** Application Dilution Information Flow Cytometry (Fixed/Permeabilized) 1:50 Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the **Storage** antibodies. Protect from light. Do not freeze. Specificity / Sensitivity Non-phospho (Active) β-Catenin (Ser33/37/Thr41) (D13A1) Rabbit mAb (PE Conjugate) recognizes endogenous β-catenin protein when residues Ser33, Ser37, and Thr41 are not phosphorylated. It does not detect β-catenin protein if tri-phosphorylated at Ser33/Ser37/Thr41. Species predicted to Chicken, Xenopus, Zebrafish, Bovine, Dog. Pig. Horse, Guinea Pig react based on 100% sequence homology: Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser37 of human β-catenin protein. This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct **Product Description**

flow cytometry analysis in human cells. The antibody is expected to exhibit the same species crossreactivity as the unconjugated Non-phospho (Active) β-Catenin (Ser33/37/Thr41) (D13A1) Rabbit mAb #8814.

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).

Non-phospho (Active) β-Catenin (Ser33/37/Thr41) (D13A1) Rabbit mAb #8814 is designed to specifically recognize the stabilized form of β -catenin, i.e., protein that has not been phosphorylated by GSK-3, and thus is functionally active in cell-cell adhesion and/or the canonical Wnt signaling pathway.

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.
- 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).

Applications Key

Cross-Reactivity Key

FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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