

#25362 Store at -20C

β-Catenin (D10A8) XP® Rabbit mAb (HRP Conjugate)



Cell Signaling
TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	92	Rabbit IgG	#P35222	1499

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibodies.	
Specificity / Sensitivity	β-Catenin (D10A8) XP® Rabbit mAb (HRP Conjugate) recognizes endogenous levels of total β-catenin protein.	
Species predicted to react based on 100% sequence homology:	Zebrafish, Bovine, Pig, Horse, Guinea Pig	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro714 of human β-catenin protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated β-Catenin (D10A8) XP® Rabbit mAb #8480.	

MW (kDa)

92

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).
Background References	<ol style="list-style-type: none">1. Cadigan, K.M. and Nusse, R. (1997) <i>Genes Dev</i> 11, 3286-3305.2. Wodarz, A. and Nusse, R. (1998) <i>Annu Rev Cell Dev Biol</i> 14, 59-88.3. Polakis, P. (1999) <i>Curr Opin Genet Dev</i> 9, 15-21.4. Amit, S. et al. (2002) <i>Genes Dev</i> 16, 1066-76.5. Liu, C. et al. (2002) <i>Cell</i> 108, 837-47.6. Yanagawa, S. et al. (2002) <i>EMBO J</i> 21, 1733-42.7. Yost, C. et al. (1996) <i>Genes Dev</i> 10, 1443-54.8. Morin, P.J. et al. (1997) <i>Science</i> 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 nonfat dry milk, 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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