Phospho-β-Catenin (Ser675) (D2F1) XP[®] Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IWB, IP, IF-F, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 92	Source/Isotype: Rabbit IgG	UniProt ID: #P35222	Entrez-Gene Id 1499	
Product Usage Information	Ap	Application			Dilution		
	We	estern Blotting			1:1	000	
	Im	munoprecipitation			1:2	00	
	Imi	Immunofluorescence (Frozen)			1:100 - 1:200		
	Im	Immunofluorescence (Immunocytochemistry)			1:100 - 1:200		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #68076.					
Specificity / Sensitiv	Cificity / Sensitivity Phospho-β-Catenin (Ser675) (D2F1) XP [®] Rabbit mAb detects endogenous levels of β-catenin phosphorylated at Ser675.					-catenin only when	
Species predicted to react based on 100% sequence homology	, D	use, Rat, Chicken,)	(enopus, Zebrafis	h			
Source / Purification		noclonal antibody is dues surrounding S		nunizing animals with a s 3-catenin.	synthetic phosphopep	tide corresponding to	
Background	biol pho pho and	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-3 β (4-6). GSK-3 β 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).					
		PKA was shown to phosphorylate β -catenin at Ser675. Phosphorylation at Ser675 induces β -catenin accumulation in the nucleus and increases its transcriptional activity (9,10).					
Background Referen	2. W 3. P 4. A 5. L 6. Y 7. Y 8. M 9. T	 Cadigan, K.M. and Nusse, R. (1997) Genes Dev 11, 3286-3305. Wodarz, A. and Nusse, R. (1998) Annu Rev Cell Dev Biol 14, 59-88. Polakis, P. (1999) Curr Opin Genet Dev 9, 15-21. Amit, S. et al. (2002) Genes Dev 16, 1066-76. Liu, C. et al. (2002) Cell 108, 837-47. Yanagawa, S. et al. (2002) EMBO J 21, 1733-42. Yost, C. et al. (1996) Genes Dev 10, 1443-54. Morin, P.J. et al. (1997) Science 275, 1787-90. Taurin, S. et al. (2006) J Biol Chem 281, 9971-6. Hino, S. et al. (2005) Mol Cell Biol 25, 9063-72. 					

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

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WB: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)

IF-IC: Immunofluorescence (Immunocytochemistry)

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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