Store at -20C

## Phospho-β-Catenin (Thr41/Ser45) **Antibody**



Orders:

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Applications: WB	Reactivity: H M Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 92	Source: Rabbit	UniProt ID: #P35222	Entrez-Gene Id 1499	
Product Usage Information		pplication			Dilution		
Storage	Sup			5), 150 mM NaCl, 10	1:1000 00 μg/ml BSA and 50% (	glycerol. Store at –	
Specificity / Sensitivity		20°C. Do not aliquot the antibody.  Phospho-β-Catenin (Thr41/Ser45) Antibody detects endogenous levels of beta-catenin only when phosphorylated at Thr41 or Ser45. This antibody does not recognize β-catenin phosphorylated at other sites.					
Species predicted react based on 10 sequence homolo	0%	g, Pig					
				immunizing animals with a synthetic phosphopeptide corresponding 45 of human β-catenin. Antibodies are purified by protein A and			
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 $\beta$ -catenin at Ser45. This phosphorylation event primes $\beta$ -catenin for subsequent phosphorylation by GSK-3 $\beta$ (4-6). GSK-3 $\beta$ destabilizes $\beta$ -catenin by phosphorylating it at Ser33, Ser37, and Thr41 (7). Mutations at these sites result in the stabilization of $\beta$ -catenin protein levels and have been found in many tumor cell lines (8).						
Background Refe	2. V 3. F 4. A	<ol> <li>Cadigan, K.M. and Nusse, R. (1997) Genes Dev 11, 3286-3305.</li> <li>Wodarz, A. and Nusse, R. (1998) Annu Rev Cell Dev Biol 14, 59-88.</li> <li>Polakis, P. (1999) Curr Opin Genet Dev 9, 15-21.</li> <li>Amit, S. et al. (2002) Genes Dev 16, 1066-76.</li> <li>Liu, C. et al. (2002) Cell 108, 837-47.</li> </ol>					

**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** WB: Western Blotting

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 

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

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.

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**Limited Uses** 

Phospho-β-Catenin (Thr41/Ser45) Antibody (#9565) Datasheet Without Images Cell Signaling Technology

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