Store at -20C

Phospho-β-Catenin (Ser45) Antibody



Orders:

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Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 92	Source: Rabbit	UniProt ID: #P35222	Entrez-Gene Id: 1499	
Product Usage Information	Ар	plication			Dilution		
	We	estern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sens		Phospho- β -Catenin (Ser45) Antibody detects endogenous levels of beta-catenin only when phosphorylated at serine 45. It does not recognize β -catenin phosphorylated at other sites.					
Species predicte react based on 1 sequence homol	.00%	ıse, Rat, Dog, Pig					
Source / Purifica	Folyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide correspond to residues surrounding Ser45 of human β-catenin. Antibodies are purified by protein A and peptide affiliation chromatography.						
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-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					

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.

found in many tumor cell lines (8).

- 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).

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer**

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting **Applications Key**

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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Limited Uses

Phospho-β-Catenin (Ser45) Antibody (#9564) Datasheet Without Images Cell Signaling Technology

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