Phospho-β-Cat Antibody 9996#	enin (Ser552)		3 Trask	Orders: Support: Web:	BISignaling CHNOLOGY* 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com
For Research Use Only. Not for	-			· ·	
Applications: Reactiv WB, IP H M		MW (kDa): 92	Source: Rabbit	UniProt ID: #P35222	Entrez-Gene Id: 1499
Product Usage Information	Application Western Blotting Immunoprecipitation Supplied in 10 mM sodi		5) 150 mM NaCl 10	Dilutior 1:1000 1:50	
Storage	20°C. Do not aliquot the	antibody.			
Specificity / Sensitivity	Phospho-β-Catenin (Se at Ser552.	r552) Antibody det	ects endogenous lev	els of β-catenin only	when phosphorylated
Species predicted to react based on 100% sequence homology:	Rat, Chicken, Xenopus,	Zebrafish			
Source / Purification	Polyclonal antibodies ar to residues surrounding 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-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). Both Akt and PKA were shown to phosphorylate β-catenin at Ser552. Phosphorylation at Ser552 induces β-catenin accumulation in the nucleus and increases its transcriptional activity (9-11). 				
Background References	 Cadigan, K.M. and Nusse, R. (1997) <i>Genes Dev</i> 11, 3286-3305. Wodarz, A. and Nusse, R. (1998) <i>Annu Rev Cell Dev Biol</i> 14, 59-88. Polakis, P. (1999) <i>Curr Opin Genet Dev</i> 9, 15-21. Amit, S. et al. (2002) <i>Genes Dev</i> 16, 1066-76. Liu, C. et al. (2002) <i>Cell</i> 108, 837-47. Yanagawa, S. et al. (2002) <i>EMBO J</i> 21, 1733-42. Yost, C. et al. (1996) <i>Genes Dev</i> 10, 1443-54. Morin, P.J. et al. (1997) <i>Science</i> 275, 1787-90. Taurin, S. et al. (2006) <i>J. Biol. Chem.</i> 281, 9971-9976. Fang, D. et al. (2007) <i>J. Biol. Chem.</i> 282, 11221-11229. He, X.C. et al. (2007) <i>Nat. Genet.</i> 39, 189-198. 				
Species Reactivity	Species reactivity is dete	rmined by testing i	n at least one appro	ved application (e.g.,	western blot).
Western Blot Buffer	IMPORTANT: For wester 0.1% Tween® 20 at 4°C			d primary antibody in	5% w/v BSA, 1X TBS,
Applications Key Cross-Reactivity Key	WB: Western Blotting IF	•: Immunoprecipita	tion		

1/1/24, 10:52 AM	Phospho-β-Catenin (Ser552) Antibody (#9566) Datasheet Without Images Cell Signaling Technology			
	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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