REVISIONI							
Phospho-β-Catenin (Ser552) (D8E11) Rabbit mAb					T E Orders:	CHNOLOGY® 877-616-CELL (2355) orders@cellsional.com	
					Cupport		
5651					Web:	info@cellsignal.com cellsignal.com	
#				3 Trask L	.ane Danvers Ma	ssachusetts 01923 USA	
For Research Use Only.	Not for Use in	Diagnostic Proce	edures.				
Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 92	Source/Isotype: Rabbit IgG	UniProt ID: #P35222	Entrez-Gene Id: 1499	
Product Usage	Ap	plication			Dilutior	1	
Information	We	Western Blotting				1:1000	
	Imr	nunoprecipitation			1:200		
Storage	Sup 0.02	plied in 10 mM sodii % sodium azide. St	um HEPES (pH ⁻ ore at –20°C. Do	7.5), 150 mM NaCl, 100 o not aliquot the antibody	μg/ml BSA, 50% gl <u>y</u> y.	ycerol and less than	
Specificity / Sensitivity		Phospho- β -Catenin (Ser552) (D8E11) Rabbit mAb detects endogenous levels of β -catenin protein only when phosphorylated at Ser552.					
Species predicted t react based on 100 sequence homolog	to Rat, % y:	Xenopus, Zebrafish	1				
Source / Purificatio	n Mon corre	oclonal antibodies a esponding to residu	are produced by es surrounding S	immunizing animals with Ger552 of human β-cate	n a synthetic phosph nin protein.	nopeptide	
Background	β-ca biolo phos and foun	tenin is a key down ogical processes in v sphorylates β-cateni sphorylation by GSk Thr41 (7). Mutations d in many tumor cel	stream effector in vertebrates: early in at Ser45. This (-3β (4-6). GSK- s at these sites r Il lines (8).	n the Wnt signaling path ν embryonic developme phosphorylation event p 3β destabilizes β-cateni esult in the stabilization	way (1). It is implicant (2) and tumoriger brimes β-catenin for by phosphorylating of β-catenin protein	ted in two major nesis (3). CK1 subsequent g it at Ser33, Ser37, levels and have been	
	Both β-ca	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 Refere	ences 1. Ca 2. W 3. Pa 4. An 5. Li 6. Ya 7. Ya 8. M 9. Ta 10. Fa 11. He	adigan, K.M. and Nu odarz, A. and Nuss olakis, P. (1999) <i>Cur</i> mit, S. et al. (2002) <i>Cur</i> u, C. et al. (2002) <i>Cu</i> anagawa, S. et al. (2002) ost, C. et al. (2002) <i>Cur</i> orin, P.J. et al. (1996) aurin, S. et al. (2006) ang, D. et al. (2007) e, X.C. et al. (2007)	usse, R. (1997) (e, R. (1998) Ann r Opin Genet De Genes Dev 16, 1 ell 108, 837-47. 2002) EMBO J 2: Genes Dev 10, 1 7) Science 275, 5) J Biol Chem 28 J Biol Chem 28 Nat Genet 39, 1	Genes Dev 11, 3286-33(u Rev Cell Dev Biol 14, ev 9, 15-21. 066-76. 1, 1733-42. 443-54. 1787-90. 17, 9971-9976. 2, 11221-11229. 89-198.	D5. 59-88.		
Species Reactivity	Spec	ies reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buffe	r IMPC 0.1%	RTANT: For wester Tween® 20 at 4°C	n blots, incubate with gentle shak	membrane with diluted ing, overnight.	primary antibody in	5% w/v BSA, 1X TBS,	
Applications Key Cross-Reactivity K	wB: ey	Western Blotting IP	: Immunoprecip	tation			

1/1/24 12·53 PM	Phospho-B-Catenin (Ser552) (D8F11) Rabbit mAb (#5651) Datasheet Without Images Cell Signaling Techn
1,1,24, 12.55 114	 Hispito p euternin (ser 552) (bb211) Rabbie mixe (#5651) Batablieet Without images een signaling reentries 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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