1/1/24, 3:15 PM Revision 1

Phospho-α-E-Catenin (Ser652) Antibody					
Stor				Orders:	877-616-CELL (2355 orders@cellsignal.con
001				Support:	877-678-TECH (8324
antibody 1902 1902 1902				Web:	info@cellsignal.con cellsignal.con
			3 Trask	Lane Danvers Mas	ssachusetts 01923 USA
Applications: Re	for Use in Diagnostic Proced activity: Sensitivity: M R Mk Endogenous	ures. MW (kDa): 100	Source: Rabbit	UniProt ID: #P35221	Entrez-Gene Id: 1495
Product Usage	Application			Dilution	
Information	Western Blotting			1:1000	
Storage	Supplied in 10 mM sodium 20°C. Do not aliquot the a		5), 150 mM NaCl, 100) µg/ml BSA and 50%	glycerol. Store at –
Specificity / Sensitivit	y Phospho-α-E-Catenin (Se phosphorylated at Ser652		ecognizes endogeno	us levels of α -E-caten	in protein only when
Source / Purification	Polyclonal antibodies are to residues surrounding So peptide affinity chromatog	er652 of human			
Background	differentiation, tissue integ proteins, cadherins, which cytoplasmic side of adhere cytoskeleton through β - ar neuronal tissue, and α -T-c demonstrated that loss of cancers, indicating that the in 1). Research studies also sug catenin regulates actin dyn (2,3). α -catenin also plays differentiation and respons regulating transcription, ar degradation (4). Phosphorylation of α -E-ca modification. For example α -E-catenin and β -catenin Ser652 as a modification i modification remains to be	Research studies also suggest that, rather than acting as a static link between cadherins and actin, α - catenin regulates actin dynamics directly, possibly by competing with the actin nucleating arp2/3 complex (2,3). α -catenin also plays a role in regulating β -catenin-dependent transcriptional activity, affecting differentiation and response to Wnt signaling. α -catenin binds to β -catenin in the nucleus, preventing it from regulating transcription, and levels of both proteins appear to be regulated via proteasome-dependent			
Background Referenc	 Yamada, S. et al. (2005) Drees, F. et al. (2005) Hwang, S.G. et al. (2004) Ji, H. et al. (2009) <i>Mol C</i> Rigbolt, K.T. et al. (2011) Chen, L. et al. (2010) <i>J</i> 	 Kobielak, A. and Fuchs, E. (2004) <i>Nat Rev Mol Cell Biol</i> 5, 614-25. Yamada, S. et al. (2005) <i>Cell</i> 123, 889-901. Drees, F. et al. (2005) <i>Cell</i> 123, 903-15. Hwang, S.G. et al. (2005) <i>J Biol Chem</i> 280, 12758-65. Ji, H. et al. (2009) <i>Mol Cell</i> 36, 547-59. Rigbolt, K.T. et al. (2011) <i>Sci Signal</i> 4, rs3. Chen, L. et al. (2010) <i>J Proteome Res</i> 9, 174-8. Brill, L.M. et al. (2009) <i>Cell Stem Cell</i> 5, 204-13. 			
Species Reactivity	Species reactivity is determ	nined by testing	in at least one approv	red application (e.g., v	western blot).
Western Blot Buffer	IMPORTANT: For western I milk, 1X TBS, 0.1% Tween				5% w/v nonfat dry
Applications Key	WB: Western Blotting				
Cross-Reactivity Key	atasheet.isp?productId=1306				

1/1/24, 3:15 PM	Phospho- α -E-Catenin (Ser652) Antibody (#13061) 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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