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אָ Phospho-α-E-Catenin (Ser652) Antibody



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit	UniProt ID: #P35221	Entrez-Gene Id: 1495
Product Usage Information	2	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM soo 20°C. Do not aliquot th		i), 150 mM NaCl, 100 μg.	/ml BSA and 50% gl	ycerol. Store at –
Specificity/Ser	sitivity	Phospho-α-E-Catenin phosphorylated at Ser		ecognizes endogenous	levels of α-E-catenir	າ protein only when
Source / Purifi	cation		dues surrounding S	munizing animals with α er652 of human α-E-cat cography.		
Background		Adherens junctions are dynamic structures that form cell-cell contacts and are important in development, differentiation, tissue integrity, morphology and cell polarity. They are composed of the transmembrane proteins, cadherins, which bind cadherins on adjacent cells in a calcium-dependent manner. On the cytoplasmic side of adherens junctions, the classic model states that cadherins are linked to the cytoskeleton through β - and α -catenin. α -E-catenin is ubiquitously expressed, α -N-catenin is expressed in neuronal tissue, and α -T-catenin is primarily expressed in heart tissue. Research studies have demonstrated that loss of E-cadherin and α -E-catenin occurs during the progression of several human cancers, indicating that the breakdown of adherens junctions is important in cancer progression (reviewed in 1).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 degradation (4).				
		modification. For exan between α-E-catenin a	nple, phosphorylati ind β-catenin (5). M as a modification ir	shown to be a functiona fon at Ser641 by casein k ass spectrometry studie a variety of cell types (6 to be determined.	kinase 2 modulates es have identified ph	interactions nosphorylation of
Background R	eferences	1. Kobielak, A. and Fuc 2. Yamada, S. et al. (20 3. Drees, F. et al. (2005 4. Hwang, S.G. et al. (2 5. Ji, H. et al. (2009) <i>Mo</i> 6. Rigbolt, K.T. et al. (2 7. Chen, L. et al. (2010 8. Brill, L.M. et al. (200	05) <i>Cell</i> 123, 889-9(5) <i>Cell</i> 123, 903-15. 005) <i>J Biol Chem</i> 28 5/ <i>Cell</i> 36, 547-59. 011) <i>Sci Signal</i> 4, rs) <i>J Proteome Res</i> 9,	30, 12758-65. 3. 174-8.	5.	
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot E	Buffer			membrane with diluted with gentle shaking, ove		n 5% w/v nonfat
Applications K	ey	W: Western Blotting				
Cross-Reactivi	ty Key	H: Human M: Mouse F	R: Rat Mk: Monkey			

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