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e at -20C	α-E-Catenin Antibody			
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
92		Support:	877-678-TECH (8324)	
#3236		Web:	info@cellsignal.com cellsignal.com	
71-		3 Trask Lane Danvers Ma	ssachusetts 01923 USA	

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 100	Source: Rabbit	UniProt ID: #P35221	Entrez-Gene Id: 1495		
Product Usage	Ар	oplication				Dilution		
Information	We	estern Blotting				1:1000		
	Im	munofluorescence (II	mmunocytochemis	try)		1:200		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		α -E-Catenin Antibody detects endogenous levels of alpha-E catenin protein. The antibody may cross-react with neuronal α -N-catenin. In some cell lysates, the antibody may cross-react with a 50 kDa band of unknown origin.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal sequence of human α -E-Catenin. Antibodies are purified using protein A and peptide affinity chromatography.						
Background	diffe proi cyto cyto neu den can in 1 Res cate (2,3 diffe reg deg	erentiation, tissue inter- teins, cadherins, whice oplasmic side of adher- opskeleton through β - pronal tissue, and α -T monstrated that loss of occers, indicating that t c.). search studies also si- enin regulates actin d (3). α -catenin also play erentiation and respo- ulating transcription, si- pradation (4).	egrity, morphology ch bind cadherins of erens junctions, the and α-catenin. α-E catenin is primaril of E-cadherin and of the breakdown of a uggest that, rather lynamics directly, p /s a role in regulati nse to Wnt signalir and levels of both	and cell polarity. The on adjacent cells in e classic model state -catenin is ubiquitou y expressed in hear t-E-catenin occurs of dherens junctions is than acting as a state ossibly by competin ng β -catenin-depen ng. α -catenin binds is proteins appear to b	ontacts and are importa ey are composed of the a calcium-dependent ma es that cadherins are linl usly expressed, α -N-cate t tissue. Research studi during the progression o s important in cancer pro- atic link between cadherin g with the actin nucleatid dent transcriptional activ to β -catenin in the nucle be regulated via proteaso	transmembrane anner. On the ked to the enin is expressed in es have f several human ogression (reviewed ns and actin, α- ing arp2/3 complex <i>v</i> ity, affecting us, preventing it from		
Background Refe	2. Y 3. D	Kobielak, A. and Fuch Yamada, S. et al. (200 Drees, F. et al. (2005) Iwang, S.G. et al. (20	05) Cell 123, 889-9 Cell 123, 903-15.	01.	j14-25.			
Species Reactivity	y Spec	cies reactivity is deter	rmined by testing ir	n at least one appro	ved application (e.g., we	estern blot).		
Western Blot Buff		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	WB	: Western Blotting IF	-IC: Immunofluores	scence (Immunocyt	ochemistry)			
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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α-E-Catenin Antibody (#3236) Datasheet Without Images Cell Signaling Technology

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