#36611

α-E-Catenin (D9R5E) Rabbit mAb



Orders:	877-616-CELL (2355) orders@cellsignal.com
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit IgG	UniProt ID: #P35221	Entrez-Gene Id: 1495		
Product Usage Information		Application Western Blotting Immunofluorescence	(Immunocytochem	istry)		Dilution 1:1000 1:800		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	lpha-E-Catenin (D9R5E) Rabbit mAb recognizes endogenous levels of total $lpha$ -E-catenin protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala885 of human α -E-Catenin protein.						
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 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).						
Background Re	eferences	1. Kobielak, A. and Fuchs, E. (2004) <i>Nat Rev Mol Cell Biol</i> 5, 614-25. 2. Yamada, S. et al. (2005) <i>Cell</i> 123, 889-901. 3. Drees, F. et al. (2005) <i>Cell</i> 123, 903-15. 4. Hwang, S.G. et al. (2005) <i>J Biol Chem</i> 280, 12758-65.						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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