α-N-Catenin (C12G4) Rabbit mAb





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Applications: W, IP, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 102	Source/Isotype: Rabbit IgG	UniProt ID: #P26232	Entrez-Gene Id: 1496		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochem	istry)		Dilution 1:1000 1:250 1:50		
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	α-N-Catenin (C12G4) Rabbit mAb detects endogenous levels of total α-N-catenin protein. The antibody does not cross-react with other α-catenin family members.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal sequence of human α -N-Catenin.						
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	ferences	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	/ity	Species reactivity is det	termined by testing	g in at least one approve	d application (e.g.,	western blot).		
Western Blot B	uffer	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 Ke	ey	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat						
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