Store at -20C

α-N-Catenin (C12G4) Rabbit mAb



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Applications: WB, 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	Ар	plication				Dilution
	We	Western Blotting				1:1000
	lmı	Immunoprecipitation				
	Imi	Immunofluorescence (Immunocytochemistry)				1:50
Storage Specificity / Sens	0.02 sitivity α-N-	2% sodium azide. S	μg/ml BSA, 50% glyd /. total α-N-catenin pro			
Source / Purifica	Durce / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptid carboxy-terminal sequence of human $α$ -N-Catenin.				synthetic peptide corr	responding to the
Background	diffe prot cyto cyto	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				

in 1). Research studies also suggest that, rather than acting as a static link between cadherins and actin, αcatenin 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).

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

Background References

- 1. Kobielak, A. and Fuchs, E. (2004) Nat Rev Mol Cell Biol 5, 614-25.
- 2. Yamada, S. et al. (2005) Cell 123, 889-901.
- 3. Drees, F. et al. (2005) Cell 123, 903-15.
- 4. Hwang, S.G. et al. (2005) J Biol Chem 280, 12758-65.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot 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 Key

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

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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