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Cell Signaling

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γ-Catenin Antibody

Applications: W, IP, IHC-P, IF-IC	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 83	Source/Isotype: Rabbit	UniProt ID: #P14923	Entrez-Gene Id: 3728	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemistr Immunofluorescence (istry)		Dilution 1:1000 1:100 1:50 1:400	
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/Sens	sitivity	γ -Catenin Antibody detects endogenous levels ot total γ -catenin protein. The antibody does not cross-react with β -catenin.					
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human γ-catenin. Antibodies are purified using protein A and peptide affinity chromatography.					
Background		Also known as plakoglobin, y-catenin is a member of the Armadillo family of signaling molecules, which includes β -catenin and the <i>Drosophila</i> protein armadillo (1). This family of proteins is involved in Wnt signaling, which is important in embryonic development and in tumorigenesis (2-3). Although the two vertebrate proteins β - and γ -catenin display sequence homology, γ -catenin likely plays a role distinct from that of β -catenin (1, 4-6). γ -catenin localizes to desmosomes and adherens junctions, both sites of intercellular adhesion, and interacts with the cytoplasmic domains of classical and desmosomal cadherins. Interaction of γ - or β -catenin with α -catenin, desmoplakin and other junction proteins provides a link between intercellular junctions and the actin and intermediate filament cytoskeleton. Maintenance and/or modification of this link is vital for control of cell adhesion and migration (1). γ - catenin is modified by phosphorylation, affecting both adhesion and β -catenin dependent transcription (7), and by and O-glycosylation, affecting adhesion (8). Recent evidence suggests that γ -catenin regulates desmosomal adhesion in response to growth factor stimulation (9).					
Background References 1. Zhurinsky, J. et al. (2000) J Cell Sci 113 (Pt 18), 3127-39. 2. Wodarz, A. and Nusse, R. (1998) Annu Rev Cell Dev Biol 14, 59-88. 3. Polakis, P. (1999) Curr Opin Genet Dev 9, 15-21. 4. Zhurinsky, J. et al. (2000) Mol Cell Biol 20, 4238-52. 5. Charpentier, E. et al. (2000) J Cell Biol 14, 59-88. 6. Kolligs, F.T. et al. (2000) J Cell Biol 23, 739-402. 8. Hu, P. et al. (2006) J Biol Chem 281, 12786-91. 9. Yin, T. et al. (2005) J Biol Chem 280, 40355-63.					18.		
Species Reactiv	ity	Species reactivity is determined by testing in at least one approved 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	у	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivity	ss-Reactivity Key H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey						
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