Phospho-Catenin δ-1 (Ser320) Antibody



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit	UniProt ID: #O60716	Entrez-Gene Id: 1500
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-Catenin δ -1 (Ser320) Antibody recognizes endogenous levels of catenin δ -1 protein only when phosphorylated at Ser320.				
Species predic based on 100% homology	ted to react sequence	Mouse, Rat, Monkey				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser320 of human catenin δ-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Catenin δ -1 (p120 catenin) has an amino-terminal coiled-coil domain followed by a regulatory domain containing multiple phosphorylation sites and a central Armadillo repeat domain of ten linked 42-amino acid repeats. The carboxy-terminal tail has no known function (1). Catenin δ -1 fulfills critical roles in the regulation of cell-cell adhesion as it regulates E-cadherin turnover at the cell surface to determine the level of E-cadherin available for cell-cell adhesion (2). Catenin δ -1 has both positive and negative effects on cadherin-mediated adhesion (3). Actin dynamics are also regulated by catenin δ -1, which modulates RhoA, Rac, and cdc42 proteins (1). Analogous to β -catenin, catenin δ -1 translocates to the nucleus, although its role at this location is unclear. Many studies show that catenin δ -1 is expressed irregularly or is absent in various types of tumor cells, suggesting that catenin δ -1 may function as a tumor suppressor (4). Phosphorylation at Ser320 on catenin δ -1 was identified at Cell Signaling Technology (CST) using PhosphoScan®, a CST™ LC-MS/MS platform for phosphorylation site discovery (5).				
Background References		 Reynolds, A.B. and Roczniak-Ferguson, A. (2004) Oncogene 23, 7947-7956. Davis, M. A. et al. (2003) J. Cell Biol. 163, 525-534. Thoreson, M.A. and Reynolds, A.B. (2002) Differentiation 70, 583-589. Anastasiadis, P.Z. and Reynolds, A.B. (2000) J. Cell Sci. 113, 1319-1334. Rush, J. et al. (2005) Nat Biotechnol 23, 94-101. 				
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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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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