

#4989 Store at -20C

## Catenin $\delta$ -1 Antibody



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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	100	Rabbit	#O60716	1500

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	Catenin $\delta$ -1 Antibody detects endogenous levels of total catenin $\delta$ -1 protein.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human catenin $\delta$ -1. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	Catenin $\delta$ -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 $\delta$ -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 $\delta$ -1 has both positive and negative effects on cadherin-mediated adhesion (3). Actin dynamics are also regulated by catenin $\delta$ -1, which modulates RhoA, Rac, and cdc42 proteins (1). Analogous to $\beta$ -catenin, catenin $\delta$ -1 translocates to the nucleus, although its role at this location is unclear. Many studies show that catenin $\delta$ -1 is expressed irregularly or is absent in various types of tumor cells, suggesting that catenin $\delta$ -1 may function as a tumor suppressor (4).	
<b>Background References</b>	1. Reynolds, A.B. and Roczniak-Ferguson, A. (2004) <i>Oncogene</i> 23, 7947-7956. 2. Davis, M. A. et al. (2003) <i>J. Cell Biol.</i> 163, 525-534. 3. Thoreson, M.A. and Reynolds, A.B. (2002) <i>Differentiation</i> 70, 583-589. 4. Anastasiadis, P.Z. and Reynolds, A.B. (2000) <i>J. Cell Sci.</i> 113, 1319-1334.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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