

Catenin δ -1 Antibody



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

Product Usage Information

Application

Western Blotting

Dilution

1:1000

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

Catenin δ -1 Antibody detects endogenous levels of total catenin δ -1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human catenin δ -1. 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).

Background References

1. Reynolds, A.B. and Rocznik-Ferguson, A. (2004) *Oncogene* 23, 7947-7956.
2. Davis, M. A. et al. (2003) *J. Cell Biol.* 163, 525-534.
3. Thoreson, M.A. and Reynolds, A.B. (2002) *Differentiation* 70, 583-589.
4. Anastasiadis, P.Z. and Reynolds, A.B. (2000) *J. Cell Sci.* 113, 1319-1334.

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

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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