

Store at -20C
#2910

Phospho-Catenin δ -1 (Tyr904) Antibody



Cell Signaling
TECHNOLOGY®

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	95, 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 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Phospho-Catenin δ -1 (Tyr904) Antibody detects endogenous levels of catenin δ -1 protein only when phosphorylated at Tyr904. The antibody might cross react with another overexpressed phospho-tyrosine protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with synthetic phosphopeptides corresponding to residues surrounding Tyr904 of human/mouse catenin δ -1. Antibodies are purified by 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 of Tyr904 on Catenin- δ -1 was identified at Cell Signaling Technology (CST) using PhosphoScan®, a CST's LC-MS/MS platform for phosphorylation site discovery (5).	
Background References	<ol style="list-style-type: none"> 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. 5. Rush, J. et al. (2005) <i>Nat. Biotechnol.</i> 23, 94-101. 	

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
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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