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## Phospho-Catenin δ-1 (Tyr904) Antibody



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

Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 95, 100	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #O60716	Entrez-Gene Id: 1500		
Product Usage Information	1	Application     Dilution       Western Blotting     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.						
		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 / Purifi	<b>ce / Purification</b> Polyclonal antibodies are produced by immunizing animals with synthetic phosphopeptides corresponding to residues surrounding Tyr904 of human/mouse catenin δ-1. Antibodies are purifie peptide affinity chromatography.							
Background		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 may function as a tumor suppressor (4). Phosphorylation of Tyr904 on Catenin- $\delta$ -1 was identified at Cell Signaling Technology (CST) using PhosphoScan <sup>®</sup> , a CST's LC-MS/MS platform for phosphorylation site discovery (5).						
Background Re	eferences	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 Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	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 K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human						
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