2911

Phospho-Catenin δ-1 (Tyr228) Antibody



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: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 95, 100	Source/Isotype: Rabbit	UniProt ID: #O60716	Entrez-Gene Id: 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.				ycerol. Store at –		
Specificity/Sensitivity		Phospho-Catenin δ-1 (Tyr228) Antibody detects endogenous levels of catenin δ-1 protein only when phosphorylated at Tyr228. The antibody might cross react with another overexpressed phospho- tyrosine protein.						
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with synthetic phosphopeptides corresponding to residues surrounding Tyr228 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 may function as a tumor suppressor (4). Catenin δ -1 is phosphorylated at multiple tyrosine sites along its sequence both <i>in vivo</i> and <i>in vitro</i> (5). High levels of catenin δ -1 phosphorylated at Tyr228 are commonly seen in several carcinoma cell lines. EGFR signaling induces catenin δ -1 phosphorylation at Tyr228, with the phosphorylated protein becoming localized at adherens junctions although phosphorylation is not essential in junction formation (6).						
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. Mariner, D.J. et al. (2001) <i>J. Biol. Chem.</i> 276, 28006-28013. 6. Mariner, D.J. et al. (2004) <i>J. Cell Sci.</i> 117, 1339-1350.						
Species Reactiv	vity	Species reactivity is de	etermined 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 nonfat dry milk, 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						
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.						

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.