

**Anti- $\delta$ 1-Catenin (Tyr-228), Phosphospecific Antibody**  
**Catalog # AN1684****Specification****Anti- $\delta$ 1-Catenin (Tyr-228), Phosphospecific Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O60716</a>
Reactivity	Bovine
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Calculated MW	108170

**Anti- $\delta$ 1-Catenin (Tyr-228), Phosphospecific Antibody - Additional Information**

Gene ID 1500

**Other Names**

pp120 Src substrate, p120

**Target/Specificity**

Catenins have emerged as molecular sensors that integrate cell-cell junctions and cytoskeletal dynamics with signaling pathways that control morphogenesis and cell to cell communication.  $\delta$ 1-Catenin (p120 catenin) is a catenin family member which contains an N-terminal coiled-coil domain, a regulatory domain containing multiple phosphorylation sites, and a central Armadillo repeat domain.  $\delta$ 1-Catenin regulates E-cadherin turnover, and has both positive and negative effects on cadherin-mediated adhesion. Actin dynamics are also regulated by  $\delta$ 1-Catenin, which can modulate RhoA, Rac and cdc42 activity.  $\delta$ 1-Catenin is phosphorylated at multiple tyrosine, serine and threonine sites both in vitro and in vivo. High levels of  $\delta$ 1-Catenin phosphorylated at Tyr-228 are commonly seen in several carcinoma cell lines and after EGFR activation. Many other tyrosine sites are also phosphorylated in the N-terminal region including Tyr-96, Tyr-112, Tyr-280, and Tyr-302. In addition, Thr-310 and Thr-916 are constitutively phosphorylated in many cell types, however this phosphorylation may occur only in  $\delta$ 1-Catenin associated with the plasma membrane.

**Dilution**

WB~~1:1000

**Format**

Protein A Purified

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Anti- $\delta$ 1-Catenin (Tyr-228), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

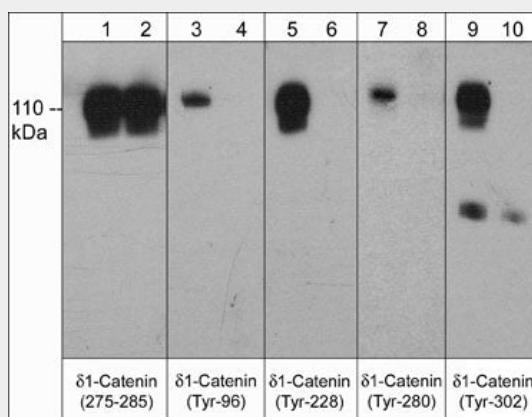
Blue Ice

## Anti- $\delta$ 1-Catenin (Tyr-228), Phosphospecific Antibody - Protocols

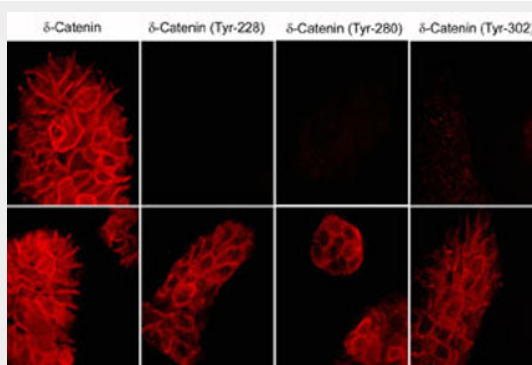
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti- $\delta$ 1-Catenin (Tyr-228), Phosphospecific Antibody - Images



Western blot analysis of  $\delta$ 1-Catenin phosphorylation in A431 cells stimulated with pervanadate (1 mM) for 30 min. (lanes 1,3,5,7,9). The blot was then treated with alkaline phosphatase (lanes 2,4,6,8,10). Blots were probed with anti- $\delta$ 1-Catenin (a.a. 275-285) (lanes 1 & 2), anti- $\delta$ 1-Catenin (Tyr-96) (lanes 3 & 4), anti- $\delta$ 1-Catenin (Tyr-228) (lanes 5 & 6), anti- $\delta$ 1-Catenin (Tyr-280) (lanes 7 & 8) or anti- $\delta$ 1-Catenin (Tyr-302) (lanes 9 & 10).



Immunocytochemical labeling of  $\delta$ 1-Catenin in untreated (Top) or pervanadate-treated (bottom) A431 cells. The cells were labeled with mouse monoclonal  $\delta$ 1-Catenin (a.a. 275-285),  $\delta$ 1-Catenin (Tyr-228),  $\delta$ 1-Catenin (Tyr-280), or  $\delta$ 1-Catenin (Tyr-302) antibodies. The antibodies were detected using donkey anti-mouse secondary antibodies conjugated to Cy3.

## Anti- $\delta$ 1-Catenin (Tyr-228), Phosphospecific Antibody - Background

Catenins have emerged as molecular sensors that integrate cell-cell junctions and cytoskeletal

dynamics with signaling pathways that control morphogenesis and cell to cell communication.  $\delta$ 1-Catenin (p120 catenin) is a catenin family member which contains an N-terminal coiled-coil domain, a regulatory domain containing multiple phosphorylation sites, and a central Armadillo repeat domain.  $\delta$ 1-Catenin regulates E-cadherin turnover, and has both positive and negative effects on cadherin-mediated adhesion. Actin dynamics are also regulated by  $\delta$ 1-Catenin, which can modulate RhoA, Rac and cdc42 activity.  $\delta$ 1-Catenin is phosphorylated at multiple tyrosine, serine and threonine sites both in vitro and in vivo. High levels of  $\delta$ 1-Catenin phosphorylated at Tyr-228 are commonly seen in several carcinoma cell lines and after EGFR activation. Many other tyrosine sites are also phosphorylated in the N-terminal region including Tyr-96, Tyr-112, Tyr-280, and Tyr-302. In addition, Thr-310 and Thr-916 are constitutively phosphorylated in many cell types, however this phosphorylation may occur only in  $\delta$ 1-Catenin associated with the plasma membrane.