



## Rabbit anti Catenin-Delta1(pY96) Polyclonal Antibody

Alternative Name(s): CTNND1

### Order Information

- **Description:** Catenin-Delta1 (pY96)
- **Catalogue:** 602-020
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt

### **ANTIGEN PREPARATION**

A synthetic peptide corresponding to the epitope LLYST at the phosphorylation site Tyr96 of human  $\beta$ -catenin.

### **BACKGROUND**

Beta-catenin is a cytosolic, 88 kDa, 781 amino acid protein belongs to the  $\beta$ -catenin family. The N-terminus domain, containing the binding site and the phosphorylation sites. Beta-Catenin serves as a link between cytoskeleton actin and transmembrane cadherin(s). It is believed to contribute to tight cell-to-cell adhesion. It can enter the nucleus and interact with the TCF/LEF family of transcription factors, initiating gene expression. Normally,  $\beta$ -catenin transcriptional activity is suppressed by a Ser/Thr kinase termed GSK3 $\beta$  and/or Casein Kinase I (CK1). Kinases are constitutively active and phosphorylates  $\beta$ -catenin at multiple sites, including S33 and S37, Y96, Y228, Y280 etc. Phosphorylation of  $\beta$ -catenin targets the molecule for degradation via a ubiquitination-mediated pathway. GSK3 $\beta$  activity can be blocked by upstream signaling events such as Wnt-Frizzled interaction. This inhibits GSK3 $\beta$ , allowing unphosphorylated  $\beta$ -catenin to enter the nucleus and initiate gene activation. The phosphorylation of beta-catenin might contribute to tumorigenesis.

### **PURIFICATION**

The Rabbit IgG is purified by site-modified Epitope Affinity Purification.

### **FORMULATION**

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes human Catenin-delta 1 protein with a phosphorylation site Tyr96.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . The antibodies can be stored at  $2^{\circ}\text{C}$ - $8^{\circ}\text{C}$  for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1  $\mu\text{g}/\text{ml}$
- ELISA: 0.01-0.1  $\mu\text{g}/\text{ml}$
- Immunoprecipitation: 2-5  $\mu\text{g}/\text{ml}$
- IHC: 2-10  $\mu\text{g}/\text{ml}$
- Flow cytometry: Not tested
- Molecular Weight: 88.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

### **FOR RESEARCH USE ONLY.**

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA  
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). [www.abbomax.com](http://www.abbomax.com) [info@abbomax.com](mailto:info@abbomax.com)



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**DATA ATTACHMENTS**

**MW (kDa)**

**1**



Western Blot: The whole lysate derived from HeLa (20 ug/lane) immunoblotted by Rabbit anti – Catenin-delta 1 (pY96) (Cat# 602-020) at 1:500. Observed a major immunoreactive band at molecular weight ~100kDa.

**REFERENCES**

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