# Rabbit anti Catenin-Delta1(pY228) Polyclonal Antibody

**Alternative Name(s): CTNND1**

**Order Information**

- **Description:** Catenin-Delta1 (pY228)
- **Catalogue:** 602-040
- **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 DNYGS at the phosphorylation site Tyr228 of human □-catenin.

## BACKGROUND

Beta-catenin is a cytosolic, 88 kDa, 781 amino acid protein belongs to the β-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, β-catenin transcriptional activity is suppressed by a Ser/Thr kinase termed GSK3β and/or Casein Kinase I (CK1). Kinases are constitutively active and phosphorylates β-catenin at multiple sites, including S33 and S37, Y96, Y228, Y280 etc. Phosphorylation of β-catenin targets the molecule for degradation via a ubiquination-mediated pathway. GSK3β activity can be blocked by upstream signaling events such as Wnt-Frizzled interaction. This inhibits GSK3β, allowing unphosphorylated β-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 Tyr228

## STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/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.**

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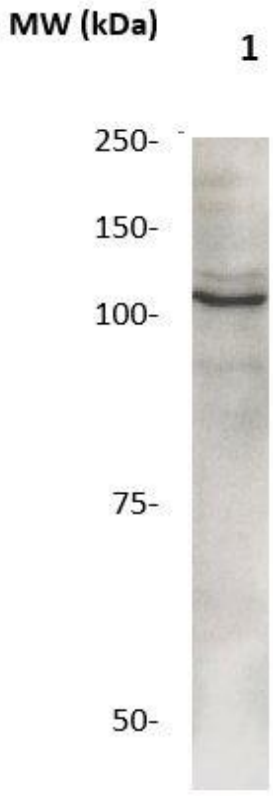
**DATA ATTACHMENTS**




Western Blot: The whole lysate derived from Hela (20 ug/lane) immunoblotted by Rabbit anti – Catenin-delta 1 (pY228) (Cat# 602-040) at 1:500. Observed a major immunoreactive band at molecular weight ~100 kDa.

**REFERENCES**