

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 □-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 GSK3 β 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. GSK3 β activity can be blocked by upstream signaling events such as Wnt-Frizzled interaction. This inhibits GSK3 β , 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 Tyr96.

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.

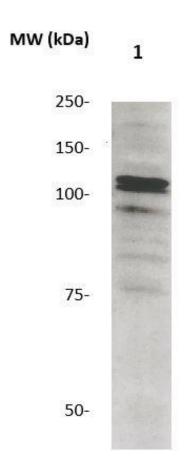
APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- 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.







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

FOR RESEARCH USE ONLY.