



Rabbit anti Catenin-b (pS675) Polyclonal Antibody

Alternative Name(s): CTNNB1

Order Information

- **Description:** Catenin-b (pS675)
- **Catalogue:** 500-8864
- **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 –KRLSVEL- with a single phosphorylation site Ser675 of human β -catenin.

BACKGROUND

Beta-catenin, a cytosolic, 88 kDa, 781 amino acid protein, belongs to the β -catenin family. The N-terminus domain, contains 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, S675, etc. Phosphorylation of β -catenin targets the molecule for degradation via a ubiquitination-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 Catenin-b protein at a phosphorylation site Serine 675.

STORAGE

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

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

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

FOR RESEARCH USE ONLY.

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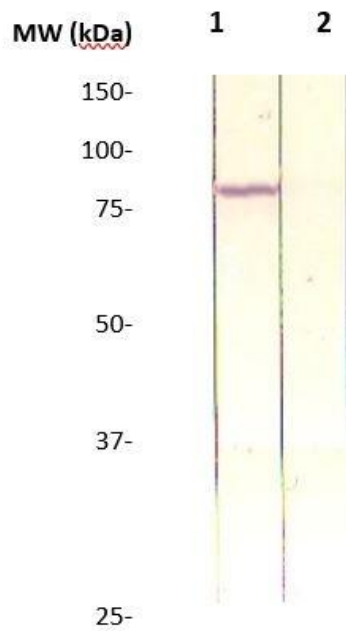


*Optimal dilutions should be determined by researchers for the specific applications.

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DATA ATTACHMENTS



Western Blot: The cell lysate derived from HELA was immunoprobed by either Rabbit anti-beta-Catenin (pS675) (Cat#500-8864) (Lane 1) or the antibody pre-incubated by immunization peptide (lane 2) at 1:500 dilution. Observed a major immunoreactive band at molecular weight ~88kDa.

REFERENCES

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