

## Product datasheet for **TA354655**

### CTNND1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to the epitope DNYGS without phosphorylation of human Catenin-delta1.
Formulation:	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by Epitope Affinity Purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	88 kDa
Gene Name:	catenin delta 1
Database Link:	<a href="#">NP_001078927</a> <a href="#">Entrez Gene 12388 Mouse</a> <a href="#">Entrez Gene 311163 Rat</a> <a href="#">Entrez Gene 1500 Human</a> <a href="#">O60716</a>



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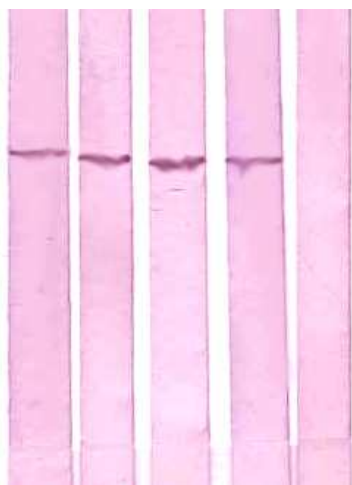
**Background:** Beta-catenin is a cytosolic, 88 kDa, 781 amino acid protein belongs to the  $\beta$ -catenin family. The N-terminus domain, containing the binding site and the phosphorylation sites. Beta-Catenin serves as a link between cytoskeleton actin and transmembrane cadherin(s). It is believed 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.

**Synonyms:** CAS; CTNND; p120; p120(CAS); p120(CTN); P120CAS; P120CTN

**Protein Families:** Druggable Genome

**Protein Pathways:** Adherens junction, Leukocyte transendothelial migration

### Product images:



WB: The cell lysate derived from HELA was immunoprobed at a dilution of 1:500 by the following antibodies: 1: Rabbit anti-beta-Catenin (pY228) 2: Rabbit anti-beta-Catenin (paired 228) 3: Rabbit anti-beta-Catenin (pY280) 4: Rabbit anti-beta-Catenin (Paired 280) 5: Negative control.