

## Product datasheet for **TA354650**

### beta Catenin (CTNNB1) 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 SGHS with dually phosphorylation sites Ser33/Ser37 of human b-catenin.
Formulation:	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by site-modified 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 beta 1
Database Link:	<a href="#">NP_001091679</a> <a href="#">Entrez Gene 12387 Mouse</a> <a href="#">Entrez Gene 84353 Rat</a> <a href="#">Entrez Gene 1499 Human</a> <a href="#">P35222</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:**

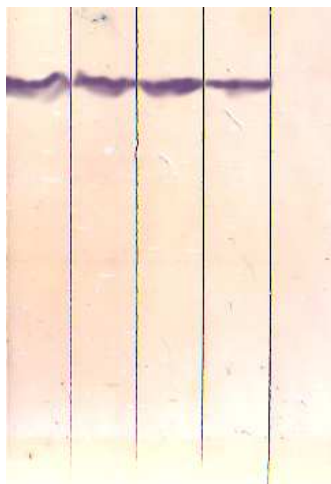
armadillo; CTNNB; MRD19

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

**Protein Pathways:**

Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Basal cell carcinoma, Colorectal cancer, Endometrial cancer, Focal adhesion, Leukocyte transendothelial migration, Melanogenesis, Pathogenic Escherichia coli infection, Pathways in cancer, Prostate cancer, Thyroid cancer, Tight junction, Wnt signaling pathway

**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 (pS33/S37) 2: Rabbit anti-beta-Catenin (pS33) 3: Rabbit anti-beta-Catenin (pS37) 4: Rabbit anti-beta-Catenin (Non-phospho) 5: Negative control.