

## Anti-Phospho-CTNNB1 (Ser33, 37) Antibody (1N602)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	1N602
Purification:	Affinity-chromatography

## Applications

Verified Activity:	Immunofluorescence staining of 293T cells(treated with 50nM Calyculin A for 30min) with TMAH-00889 at 1:100,counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).
Application:	ELISA,IF
Recommended	IF:1:20-1:200.

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthetic peptide: Human Phospho-CTNNB1 (S33/S37)
Antigen Species:	Human
Gene ID:	1499
Uniprot ID:	P35222
Synonyms:	OK/SW-cl.35;p-CTNNB1 (Ser33, 37);CTNNB1 (p-S33, 37);armadillo;CTNNB;p-CTNNB1 (S33, 37);NEDSDV;EVR7;MRD19;PRO2286;beta-catenin;Phospho-CTNNB1 (S33, 37);CTNNB1 (p-Ser33, 37)
Biology Area:	Signal Transduction

## Research Background

Key downstream component of the canonical Wnt signaling pathway. In the absence of Wnt, forms a complex with AXIN1, AXIN2, APC, CSNK1A1 and GSK3B that promotes phosphorylation on N-terminal Ser and Thr residues and ubiquitination of CTNNB1 via BTRC and its subsequent degradation by the proteasome. In the presence of Wnt ligand, CTNNB1 is not ubiquitinated and accumulates in the nucleus, where it acts as a coactivator for transcription factors of the TCF/LEF family, leading to activate Wnt responsive genes. Involved in the regulation of cell adhesion, as component of an E-cadherin:catenin adhesion complex. Acts as a negative regulator of centrosome cohesion. Involved in the CDK2/PTPN6/CTNNB1/CEACAM1 pathway of insulin internalization. Blocks anoikis of malignant kidney and intestinal epithelial cells and promotes their anchorage-independent growth by down-regulating DAPK2. Disrupts PML function and PML-NB formation by inhibiting RANBP2-mediated sumoylation of PML. Promotes neurogenesis by maintaining sympathetic neuroblasts within the cell cycle. Involved in chondrocyte differentiation

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via interaction with SOX9: SOX9-binding competes with the binding sites of TCF/LEF within CTNNB1, thereby inhibiting the Wnt signaling.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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