

## Product datasheet for **TA384059**

### beta Catenin (CTNNB1) Rabbit Monoclonal Antibody [Clone ID: R07-9D5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	R07-9D5
Applications:	IF, WB
Recommended Dilution:	WB: 1/1000 ICC/IF: 1/50
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human beta Catenin
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 86 kDa; Observed MW: 86 kDa
Gene Name:	catenin beta 1
Database Link:	<a href="#">Entrez Gene 1499 Human P35222</a>



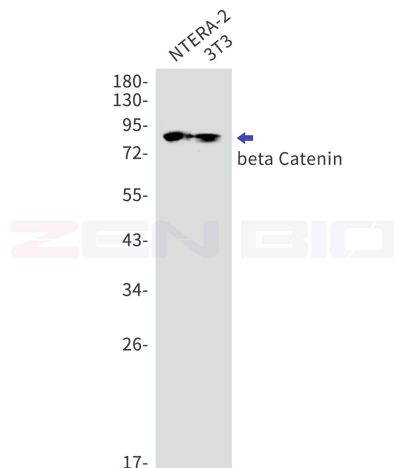
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**Background:**

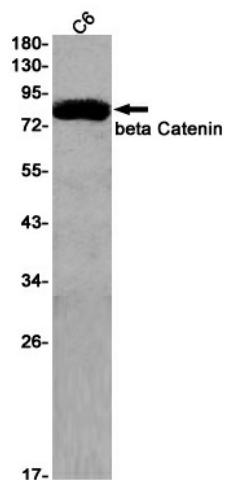
Swiss-Prot Acc.P35222.Key downstream component of the canonical Wnt signaling pathway. In the absence of Wnt, forms a complex with AXIN1, AXIN2, APC, CSNK1A1 and GSK3B that promotes phosphorylation on N-terminal Ser and Thr residues and ubiquitination of CTNNB1 via BTRC and its subsequent degradation 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 (PubMed:17524503, PubMed:18077326, PubMed:18086858, PubMed:18957423, PubMed:21262353, PubMed:22647378, PubMed:22699938, PubMed:22155184). Promotes neurogenesis by maintaining sympathetic neuroblasts within the cell cycle .

**Synonyms:**

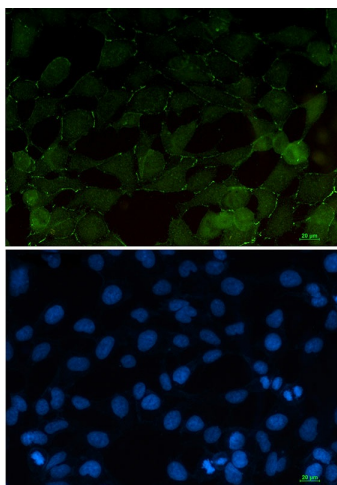
beta-catenin; CTNNB; DKFZp686D02253; FLJ25606; FLJ37923; OTTHUMP00000209288

**Product images:**

Western blot detection of beta Catenin in NTERA-2,3T3 lysates using beta Catenin antibody.Predicted band size:36kDa.Observed band size:86kDa.



Western blot detection of beta Catenin in C6 cell lysates using beta Catenin Rabbit mAb(1:1000 diluted).Predicted band size:86kDa.Observed band size:86kDa.



Immunocytochemistry analysis of beta Catenin (green) in 293T using beta Catenin antibody,and DAPI(blue).