

Recombinant Dog catenin beta 1 Protein, His-tagged

Cat. No. CTNNB1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dog catenin beta 1 Protein with N-terminal His6 fusion tag was expressed in E. coli.
Species	Dog
Source	E.coli
ProteinLength	788
Description	Key downstream component of the canonical Wnt signaling pathway (By similarity). 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 (By similarity). Involved in the regulation of cell adhesion, as component of an E-cadherin:catenin adhesion complex (By similarity). 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 (By similarity). Promotes neurogenesis by maintaining sympathetic neuroblasts within the cell cycle.

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	Involved in chondrocyte differentiation via interaction with SOX9: SOX9-binding competes with the binding sites of TCF/LEF within CTNNB1, thereby inhibiting the Wnt signaling
Form	Buffered aqueous solution
Molecular Mass	86.5 kDa
AA Sequence	MHHHHHHHHATQADLMELDMAMEPDRKAAVSHWQQQSYLDSGIHSGATTTAPSL SGKGNPEEEDVDTTQVLYEWEQGFSSQFTQEQQVADIDGQYAMTRAQVRAMFP ETLDEGMQIPSTQFDAAHPTNVQRLAEPQMLKHAVVNLINYQDDAELATRAIPELT KLLNDEDQVVVNKAAVMVHQLSKKEASRHAIMRSPQMVSIVRTMQNTNDVETARC TAGTLHNLSSHREGLLAIFKSGGIPALVKMLGSPVDSVLFYAITTLHNLHLLHQEGAKM AVRLAGGLQKMVALLNKTNVKFLAITTDCLQILAYGNQESKLIILASGGPQALVNIMRT YTYEKLLWTTSRVLKVLVSVCSNKPAAVEAGGMQALGLHLTDPSQRLVQNCLWTLR NLSDAATKQEGMEGLLGLTLVQLLGSDDINVVTCAAGILSNLTCNNYKNKMMVCQVG GIEALVRTVLRAGDREDITEPAICALRHLSRHQEAEMAQNAVRLHYGLPVVVKLLHP PSHWPLIKATVGLIRNLALCPANHAPLREQGAIPRLVQLLVRAHQDTQRRTSMGGTQ QQFVEGVRMEEIVEGCTGALHILARDVHNIRIVIRGLNTIPLFVQLLYSPIENIQRVAAG VLCELAQDKAEAAEIAEGATAPLTELHLSRNEGVATYAAAVLFRMSDKPQDYKKR LSVELTSSLFRTEPMAWNETADLGLDIGAQGEPLGYRQDDPSYRSFHSGGYGQDAL GMDPMMHEHEMGGHHPGADYPVDGLPDLGHAQDLMDGLPPGDSNQLAWFDTD
Purity	90% by SDS-PAGE
Applications	Antigen for antibody production ELISA
Storage	Store it under sterile conditions at -20 to -80 °C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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Concentration 0.56 mg.ml

Storage Buffer Solution in 50mM Tris, 300mM NaCl, pH 8.0.

GENE INFORMATION

Gene Name CTNNB1

Official Symbol CTNNB1

Synonyms Catenin beta-1, Beta-catenin

Gene ID 477032

mRNA Refseq NM_001137652.1

Protein Refseq NP_001131124.1

UniProt ID B6V8E6

SDS-PAGE



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