

Recombinant Human CTNNB1 Protein (2-781 aa), His-tagged

Cat. No. CTNNB1-2514H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTNNB1 Protein (2-781 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Human
Source	Yeast
ProteinLength	2-781 aa
Description	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. 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.

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Form	Tris-based buffer,50% glycerol
Molecular Mass	87.4 kDa
AA Sequence	ATQADLMELDMAMEPDRKAAVSHWQQQSYLDSGIHSGATTAPSLSGKGNPEEED VDTSQVLYEWEQGFSSQFTQEQQVADIDGQYAMTRAQRVRAAMFPETLDEGMQIPS TQFDAAHPTNVQRLAEPSQMLKHAVVNLINYQDDAELATRAIPELTKLLNDEDQVVV NKAAVMVHQLSKKEASRHAIMRSPQMVSAIVRTMQNTNDVETARCTAGTLHNLSSH REGLLAIFKSGGIPALVKMLGSPVDSVLFYAITTLHNLLLHQEGAKMAVRLAGGLQKM VALLNKTNVKFLAITTDCLQILAYGNQESKLILASGGPQALVNIMRTYTYEKLLWTTS RVLKVL SVCSSNKPAIVEAGGMQALGLHLTDPSQRLVQNCLWTLRNLSDAATKQEG MEGLLGLTLVQLLGSDDINVVTCAAGILSNLTCNNYKNKMMVCQVGGIEALVRTVLRA GDREDITEPAICALRHLTSRHQEAEMAQNAVRLHYGLPVVVKLLHPPSHWPLIKATV GLIRNLALCPANHAPLREQGAIPRLVQLLVRAHQDTQRRTSMGGTQQQFVEGVRME EIVEGCTGALHILARDVHNRIVIRGLNTIPLFVQLLYSPIENIQRVAAGVLCELAQDKEA AEAIEAEGATAPLTELLHSRNEGVATYAAAVLFRMSEDKPQDYKKRSLVELTSSLFR TEPMAWNETADLGLDIGAQGEPLGYRQDDPSYRSFHSGGYGQDALGMDPMMMEHE MGGHHPGADYPVDGLPDLGHAQDLMDGLPPGDSNQLAWFDTDL
Purity	> 85% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed

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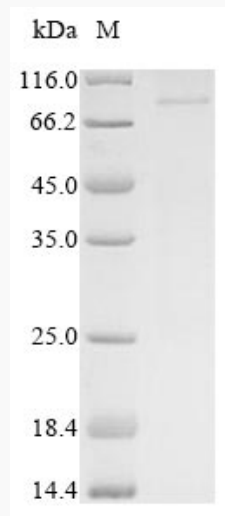
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information.

GENE INFORMATION

Gene Name	CTNNB1 catenin (cadherin-associated protein), beta 1, 88kDa [Homo sapiens]
Official Symbol	CTNNB1
Synonyms	CTNNB1; catenin beta-1; beta catenin; CTNNB; FLJ25606; FLJ37923; DKFZp686D02253;
Gene ID	1499
mRNA Refseq	NM_001098209
Protein Refseq	NP_001091679
MIM	116806
UniProt ID	P35222

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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