Active Recombinant Full Length Human CTNNB1 Protein, C-Flag-tagged

Cat. No. CTNNB1-21HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CTNNB1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is part of a complex of proteins that constitute adherens junctions (AJs). AJs are necessary for the creation and maintenance of epithelial cell layers by regulating cell growth and adhesion between cells. The encoded protein also anchors the actin cytoskeleton and may be responsible for transmitting the contact inhibition signal that causes cells to stop dividing once the epithelial sheet is complete. Finally, this protein binds to the product of the APC gene, which is mutated in adenomatous polyposis of the colon. Mutations in this gene are a cause of colorectal cancer (CRC), pilomatrixoma (PTR), medulloblastoma (MDB), and ovarian cancer. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Pull-down assay
Molecular Mass	85.3 kDa
AA Sequence	MATQADLMELDMAMEPDRKAAVSHWQQQSYLDSGIHSGATTTAPSLSGKGNPEEE

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	DVDTSQVLYEWEQGF SQSFTQEQVADIDGQYAMTRAQRVRAAMFPETLDEGMQIP STQFDAAHPTNVQRLAEPSQMLKHAVVNLI NYQDDAELATRAIPELTKLLNDEDQVV VNKAAVMVHQLSKKEASRHAIMRSPQMVSAIVRTMQNTNDVET ARCTAGTLHNLS HHREGLLAIFKSGGIPALVKMLGSPVDSVLFYAITTLHNLLLHQEGAKMAVRLAGGLQ KMVALLNKTNVKFLAITTDCLQILAYGNQESKLIILASGGPQALVNIMRTYTYEKLLWT TSRVLKVLSVC SSNKPAIVEAGGMQALGLHLTDPSQRLVQNCLWTLRNLSDAATKQ EGMEGLLGTLVQLLGSDDINVVTCA AGILSNLTCNNYKNKMMVCQVGGIEALVRTVL RAGDREDITEPAICALRHLTSRHQEAEMAQNAVRLHYG LPVVVKLLHPPSHWPLIKA TVGLIRNLALCPANHAPLREQGAIPRLVQLLVRAHQDTQRRTSMGGTQQQF VEGVR MEEIVEGCTGALHILARDVHNRIVIRGLNTIPLFVQLLYSPIENIQRVAAGVLCELAQDK EAAEA IEAEGATAPLTELLHSRNEGVATYAAAVLFRMSEDKPQDYKKRLSVELTSSL FRTEPMAWNETADLGLDI GAQGEPLGYRQDDPSYRSFHSGGYGQDALGMDPMME HEMGGHHPGADYPVDGLPDLGHAQDLMDGLPPGD SNQLAWFDTDLTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
Protein Pathways	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Basal

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	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
Full Length	Full L.

GENE INFORMATION

Gene Name	CTNNB1 catenin beta 1 [Homo sapiens (human)]
Official Symbol	CTNNB1
Synonyms	EVR7; CTNNB; MRD19; NEDSDV; armadillo
Gene ID	1499
mRNA Refseq	NM_001904.4
Protein Refseq	NP_001895.1
MIM	116806
UniProt ID	P35222

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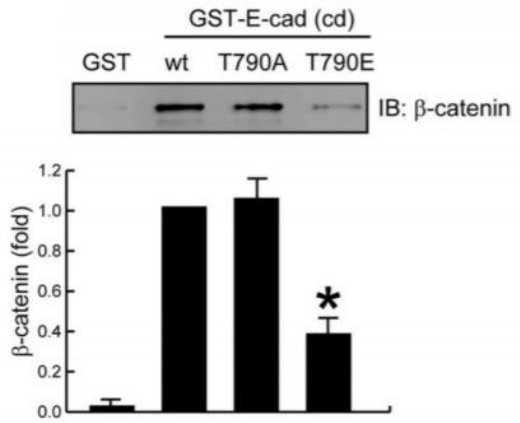
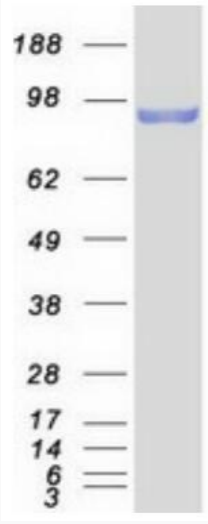


Substitution of E-cadherin Thr790 with Glu reduces the binding between E-cadherin and beta-catenin. Purified beta-catenin was incubated with purified wild-type (wt) or mutant GST-E-cadherincytoplasmic domains (cd) or GST (as a control). The protein complexes were pulled-down by glutathione-agarose beads and analyzed by immunoblotting with an anti-beta-catenin antibody.



Coomassie blue staining of purified CTNNB1 protein.

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