

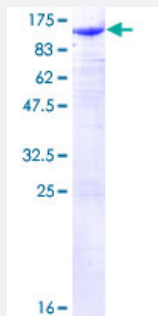
Full-Length

CTNNB1 (Human) Recombinant Protein (P01)

Catalog # H00001499-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CTNNB1 full-length ORF (XP_001133675.1, 1 a.a. - 781 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MATQADLMELDMAMEPDRKAAVSHWQQQSYLDSGIHSGATTTAPSLSGKGNPEEEDVDTSQVL
YEWEQGFSSQFTQEQQVADIDGQYAMTRAQRVRAAMFPETLDEGMQIPSTQFDAAHPTNVQRLAE
PSQMLKHAVVNLINYQDDAELATRAIPELTKLLNDEDQVVVNKAAMVHQLSKKEASRHAIMRSP
QMVSAMRTMQNTNDVETARCTAGTLHNLSSHREGLLAIFKSGGIPALVKMLGSPVDSVLFYAITL
HNLLHHEGAKMAVRLAGGLQKMVALLNKTNVKFLAITTDCLQILAYGNQESKLILASGGPQALVNI
MRTYTYEKLWTTSRVLKVLSSCNKPAVEAGGMQALGLHLTDPSQRLVQNCLWTLRNLSDAA
TKQEGMEGLLGTLVQLLGSDDINVVTCAAGILSNLTCNNYKNKMMVCQVGGIEALVRTVLRAGDR
EDITEPAICALRHLSRHQEAEMAQNAVRLHYGLPVVVKLLHPPSHWPLIKATVGLIRNLALCPANH
APLREQGAIPRLVQLLVRAHQDTQRRTSMGGTQQQFVEGVRMEEVEGCTGALHILARDVHNRVI
RGLNTIPLFVQLLYSPIENIQRVAAGVLCELAQDKEAAEAIEAEGATAPL TELLHSRNEGVATYAAA
VLFRMSEDKPQDYKKRLSVELTSSLFRTEPMAWNETADLGLDIGAQGEPLGYRQDDPSYRSFHS
GGYGQDALGMDPMMEHEMGGHHPGADYPVDGLPDLGHAQDLMDGLPPGDSNQLAWFD TDL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

111.9

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CTNNB1

Entrez GeneID	1499
GeneBank Accession#	XM_001133675.1
Protein Accession#	XP_001133675.1
Gene Name	CTNNB1
Gene Alias	CTNNB, DKFZp686D02253, FLJ25606, FLJ37923
Gene Description	catenin (cadherin-associated protein), beta 1, 88kDa
Omim ID	114550 116806 132600 155255
Gene Ontology	Hyperlink
Gene Summary	Beta-catenin is an adherens junction protein. Adherens junctions (AJs; also called the zonula adherens) are critical for the establishment and maintenance of epithelial layers, such as those lining organ surfaces. AJs mediate adhesion between cells, communicate a signal that neighboring cells are present, and anchor the actin cytoskeleton. In serving these roles, AJs regulate normal cell growth and behavior. At several stages of embryogenesis, wound healing, and tumor cell metastasis, cells form and leave epithelia. This process, which involves the disruption and reestablishment of epithelial cell-cell contacts, may be regulated by the disassembly and assembly of AJs. AJs may also function in the transmission of the 'contact inhibition' signal, which instructs cells to stop dividing once an epithelial sheet is complete.[supplied by OMIM]

Other Designations

OTTHUMP00000165222|OTTHUMP00000165223|catenin (cadherin-associated protein), beta 1 (88kD)|catenin beta-1

Publication Reference

- [A novel RIP1-mediated canonical WNT signaling pathway that promotes colorectal cancer metastasis via \$\beta\$ -catenin stabilization-induced EMT.](#)

A-Ram Kang, Jung-Lim Kim, YoungHa Kim, Sanghee Kang, Sang-Cheul Oh, Jong Kuk Park.

Cancer Gene Therapy 2023 Jul; [Epub].

Application: WB-Re, N/A, Recombinant proteins

- [MMP-12 polarizes the neutrophil signalome towards an apoptotic signature.](#)

Upendra Chalise, Mediha Becirovic-Agic, Shelby R. Konfrst, Jocelyn R. Rodriguez-Paar, Leah M. Cook and Merry L. Lindsey.

Journal of Proteomics 2022 Jul; 264:104636.

Application: Substrate, Human, Recombinant protein

- [Interactions between \$\beta\$ -Catenin and the HSlo Potassium Channel Regulates HSlo Surface Expression.](#)

Bian S, Bai JP, Chapin H, Le Moellic C, Dong H, Caplan M, Sigworth FJ, Navaratnam DS.

PLoS One 2011 Dec; 6(12):e28264.

Application: Func, Human, HEK 293T cells

Pathway

- [Adherens junction](#)
- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Basal cell carcinoma](#)
- [Colorectal cancer](#)
- [Endometrial cancer](#)
- [Focal adhesion](#)
- [Leukocyte transendothelial migration](#)
- [Melanogenesis](#)
- [Pathogenic Escherichia coli infection - EHEC](#)

- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Thyroid cancer](#)
- [Tight junction](#)
- [Wnt signaling pathway](#)

Disease

- [Adenoma](#)
- [Adrenal Cortex Neoplasms](#)
- [Alzheimer disease](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Chromosome Aberrations](#)
- [Chromosome Deletion](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Ependymoma](#)

- [Esophageal Neoplasms](#)
- [Fibroma](#)
- [Fibromatosis](#)
- [Fractures](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Head and Neck Neoplasms](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Laryngeal Neoplasms](#)
- [Leukemia](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Microsatellite Instability](#)
- [Mouth Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)

- [Pharyngeal Neoplasms](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Spinal Fractures](#)
- [Stomach Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)
- [Wilms Tumor](#)