

# Recombinant Human CTNNB1,GST-tagged

**Cat. No.** CTNNB1-1441H    **Lot. No.** (See product label)

## SPECIFICATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b>      | Recombinant full-length human Catenin beta was expressed by baculovirus in <i>Sf9</i> insect cells using an N-terminal GST tag. MW = 115kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>                | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>           | <p><math>\beta</math>-catenins are cytoplasmic proteins that are ubiquitously expressed. These proteins associate with E-cadherin at cellular junctions. <math>\beta</math>-catenin interacts with TCF and LEF transcription factors and is an essential member of the Wingless-Wnt signal transduction pathway. The adenomatous polyposis coli (APC) tumor-suppressor protein, together with Axin and GSK3<math>\beta</math>, form a Wnt-regulated signaling complex that mediates phosphorylation-dependent degradation of <math>\beta</math>-catenin by the proteasome. APC and Siah-1 mediate a novel <math>\beta</math>-catenin degradation pathway linking p53 activation to cell cycle control. Activating mutations in the human <math>\beta</math>-catenin gene have been found in human colon cancer and melanomas.</p> |
| <b>Sequence</b>              | Full-length.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Applications</b>          | Western Blot.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage And Stability</b> | Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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## GENE INFORMATION

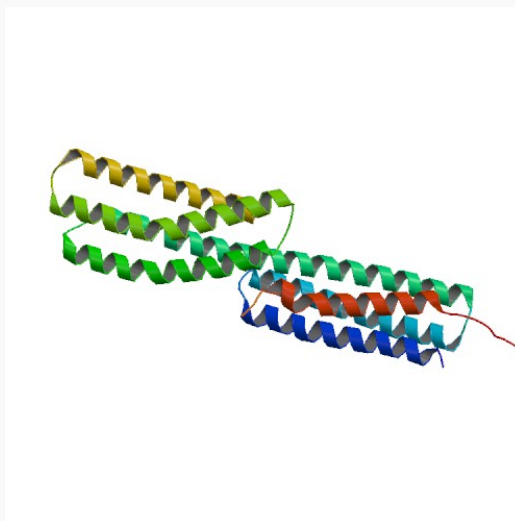
|                            |                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CTNNB1 catenin (cadherin-associated protein), beta 1, 88kDa [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>            | CTNNB1; catenin (cadherin-associated protein), beta 1, 88kDa; CTNNB; FLJ25606; FLJ37923; DKFZp686D02253; beta-catenin; Catenin beta-1; Beta-catenin                                                                                                                                                                                                                                                     |
| <b>Gene ID</b>             | 1499                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | NM_001098209                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>      | NP_001091679                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>MIM</b>                 | 116806                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>          | P35222                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 3p21                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Pathway</b>             | Adherens junction; Arrhythmogenic right ventricular cardiomyopathy (ARVC); Basal 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; Apoptosis; Cell-cell adhesion systems; Signaling by Wnt |
| <b>Function</b>            | I-SMAD binding; alpha-catenin binding; androgen receptor binding; cadherin binding; chromatin binding; double-stranded DNA binding; kinase binding; promoter binding; protein C-terminus binding; protein phosphatase binding; signal transducer activity; transcription coactivator activity; transcription factor activity; transcription factor binding                                              |

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on 1dow.



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