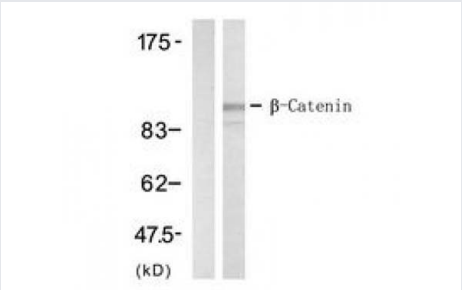
# Beta Catenin (CTNNB1) Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | beta Catenin (CTNNB1), Polyclonal Antibody |
| **Full Product Name** | beta Catenin antibody |
| **Product Gene Name** | anti-CTNNB1 antibody |
| **Product Synonym Names** | Rabbit polyclonal beta Catenin antibody; Polyclonal beta Catenin antibody; Anti-beta Catenin antibody; Cadherin-Associated Protein Delta 2 antibody; CTNND1 antibody; Phospho Thr41/Ser45 antibody; CTNND antibody; p120 antibody; P120CAS antibody; KIAA0384 antibody; P120CTN antibody; CAS antibody |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Form/Format** | Liquid form in PBS buffer (no MG2+ or Ca2+), pH 7.4, 150 mm NaCl,0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | Purified by immunoaffinity chromatography. |
| **Concentration** | 1 mg/ml (lot specific) |
| **Preparation and Storage** | Store at 4 degree C for short term storage.<br>Aliquot and store at-20 degree C for long term storage.<br>Avoid repeated freeze/thaw cycles. |
| **Molecular Weight** | 85,497 Da |
| **OMIM** | 114500 |
| **3D Structure** | ModBase 3D Structure for P35222 |
| **Immunogen** | beta Catenin antibody was raised in Rabbit using the peptide sequence around aa 652~656 (A-T-Y-A-A) derived from Human B-Catenin as the immunogen. |
| **Cross-Reactivity** | Human, Mouse, Rat |
| **Product Categories/Family for anti-CTNNB1 antibody** | Signal Transduction |
| **Applications Tested/Suitable for anti-CTNNB1 antibody** | Western Blot (WB) |
| **Application Notes for anti-CTNNB1 antibody** | WB: 1:500-1:1000 |
| **Related Product Information for anti-CTNNB1 antibody** | beta Catenin is a member of the Armadillo protein family, which function in adhesion between cells and signal transduction. Multiple translation initiation codons and althernative splicing result in many different isoforms being translated. |
| **Other Notes** | Small volumes of anti-CTNNB1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CTNNB1 purchase** | MBS5309837 is an antibody targeting CTNNB1. Also known as beta Catenin antibody. Host: Rabbit. |




**Testing Data of anti-CTNNB1 antibody**
Western Blot analysis of extracts from HT29 and Hela cells using beta-Catenin antibody

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTNNB1. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 38520 |
| **NCBI GeneID** | 1499 |
| **NCBI Accession #** | CAA79497.1 |
| **UniProt Primary Accession #** | P35222 |
| **UniProt Secondary Accession #** | Q8NEW9; Q8NI94; Q9H391; A8K1L7 |
| **UniProt Related Accession #** | P35222 |
| **NCBI Official Full Name** | beta catenin |
| **NCBI Official Synonym Full Names** | catenin beta 1 |
| **NCBI Official Symbol** | CTNNB1 |
| **NCBI Official Synonym Symbols** | EVR7; CTNNB; MRD19; armadillo |
| **UniProt Protein Name** | Catenin beta-1 |
| **UniProt Synonym Protein Names** | Beta-catenin |
| **Protein Family** | Catenin |
| **UniProt Gene Name** | CTNNB1 |
| **UniProt Synonym Gene Names** | CTNNB |
| **NCBI Protein Information** | catenin beta-1 |
| **NCBI Summary for CTNNB1** | 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. [provided by RefSeq, Aug 2016] |

| | |
|---|---|
| **UniProt Comments for CTNNB1** | 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, as component of an E-cadherin:catenin adhesion complex. 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 (PubMed:17524503, PubMed:18077326, PubMed:18086858, PubMed:18957423, PubMed:21262353, PubMed:22647378, PubMed:22699938, PubMed:22155184). Promotes neurogenesis by maintaining sympathetic neuroblasts within the cell cycle (). |
| **Research Articles on CTNNB1** | **1.** report two cases of melanocytic tumors with features of "pure" atypical deep-penetrating nevus (e.g., without a common nevus component), with only a CTNNB1 mutation without mutations in the MAPK pathway |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-antibody/beta-catenin/5309837