

Rabbit B-Catenin Polyclonal Antibody | anti-ctnnb1 antibody

B-Catenin Antibody

CATALOG # AAA225701	HOST Rabbit	APPLICATIONS Immunohistochemistry, Immunohistochemistry, Western Blot
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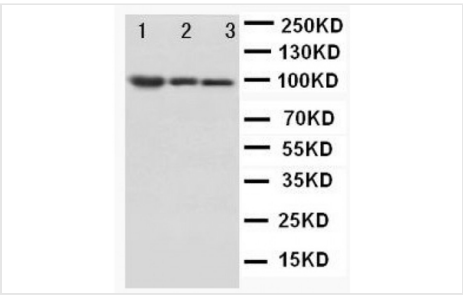
PRODUCT SYNONYMS

B-Catenin; Polyclonal Antibody; B-Catenin Antibody; Affinity Purified Rabbit Polyclonal B-Catenin Antibody; Polyclonal B-Catenin antibody; Anti-B-Catenin antibody; Catenin beta antibody; Beta Catenin antibody; Catenin antibody; anti-ctnnb1 antibody

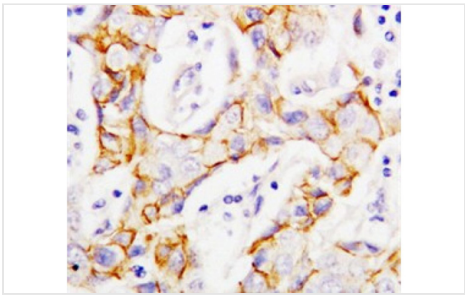
PRODUCT SPECIFICATIONS

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Specificity	Purified polyclonal CTNNB1 antibody specific for Human CTNNB1 for use in Immunohistochemistry and Western blot.
Purity/Purification	Affinity Chromatography
Form/Format	Lyophilized Form
Sequence Length	780
Applicable Applications for anti-ctnnb1 antibody	IHC (Immunohistochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	B-Catenin antibody was raised in Rabbit using a synthetic peptide corresponding to a sequence at the C-terminal of human Catenin beta, identical to the related rat and Rabbit sequence as the immunogen.
Post-Translational Modifications	Phosphorylation at Ser-552 by AMPK promotes stabilization of the protein, enhancing TCF/LEF-mediated transcription. Phosphorylated by NEK2. EGF stimulates tyrosine phosphorylation. Phosphorylation on Tyr-654 decreases CDH1 binding and enhances TBP binding. Phosphorylated on Ser-33 and Ser-37 by HIPK2. This phosphorylation triggers proteasomal degradation. Phosphorylation on Ser-191 and Ser-246 by CDK5. Phosphorylation by CDK2 regulates insulin internalization. Phosphorylation by PTK6 at Tyr-64, Tyr-142, Tyr-331 and/or Tyr-333 with the predominant site at Tyr-64 is not essential for inhibition of transcriptional activity. Ubiquitination occurs at Lys19, Lys133, Lys158, Lys170, Lys233, Lys335, Lys345, Lys354, Lys435 and Lys508.
Expression	CTNNB1 is heavily expressed during transcription events. The majority of CTNNB1 is localized to the cell membrane. In interphase, colocalizes with CROCC between CEP250 puncta at the proximal end of centrioles, and this localization is dependent on CROCC and CEP250. In mitosis, when NEK2 activity increases, it localizes to centrosomes at spindle poles independent of CROCC. Colocalizes with CDK5 in the cell-cell contacts and plasma membrane of undifferentiated and differentiated neuroblastoma cells. Colocalized with RAPGEF2 and TJP1 at cell-cell contacts.
Preparation and Storage	Store at 4 degree C for short term storage. For long term storage aliquot and store at -20 degree C. Avoid repeated freeze/thaw cycles.

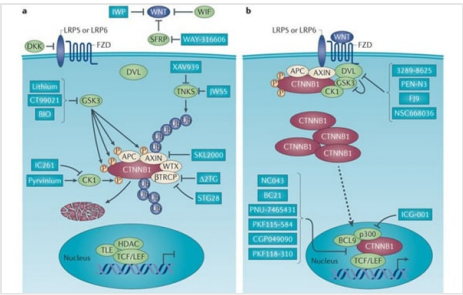
IMAGES



WB (Western Blot)
Lane 1: MM453 Cell Lysate; Lane 2: MCF-7 Cell Lysate; Lane 3: HeLa Cell Lysate



IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded section of Human Mammary Cancer Tissue



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-ctnnb1 antibody	Description: CTNNB1 is composed of 781 amino acids with a molecular weight of 85497 Da. There are 12 ARM repeats between positions 151 and 666. Biological Significance: CTNNB1 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. CTNNB1 is a key downstream component of the canonical Wnt signaling pathway. Implications In Disease: Defects in CTNNB1 are associated with colorectal cancer. Genetic alterations are often associated with progression from premalignant lesion (adenoma) to invasive adenocarcinoma. Risk factors for cancer of the colon and rectum include colon polyps, long-standing ulcerative colitis, and genetic family history. Mutations in this gene are also a cause of pilomatixoma (PTR), medulloblastoma (MDB), and ovarian cancer.
Product Categories/Family for anti-ctnnb1 antibody	Cell Biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	1125100
NCBI GeneID	30265
NCBI Official Full Name	b-catenin
NCBI Official Synonym Full Names	catenin (cadherin-associated protein), beta 1
NCBI Official Symbol	ctnnb1
NCBI Official Synonym Symbols	ctnnb; id:ibd2058; wu:fb73e10; wu:fi81c06; wu:fk25h01
NCBI Protein Information	catenin beta-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/b-catenin-antibody-immunohistochemistry-immunohistochemistry-western-blot-elisa/225701>