CTNNB1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CTNNB1, Monoclonal Antibody
Full Product Name	CTNNB1 (Catenin (Cadherin-Associated Protein), beta 1, 88kD, CTNNB, DKFZp686D02253, FLJ25606, FLJ37923) (MaxLight 650)
Product Gene Name	anti-CTNNB1 antibody
Product Synonym Names	Catenin (Cadherin-Associated Protein); beta 1; 88kD; CTNNB; DKFZp686D02253; FLJ25606; FLJ37923
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1000
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified
Specificity	Recognizes CTNNB1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recov product, centrifuge the original vial prior to removing the cap.
Immunogen	CTNNB1 (AAH58926, 682aa-781aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	LFRTEPMAWNETADLGLDIGAQGEPLGYRQDDPSYRSFHSGGYGQDALGMDPMMEHEMGGHHPGADYPVDGLPDLGHAQDLMDGLPPGDSNQLAW
Conjugate	MaxLight650
Product Categories/Family for anti-CTNNB1 antibody	Antibodies; Catenin
Applications Tested/Suitable for anti-CTNNB1 antibody	Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-CTNNB1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CTNNB1 antibody	Beta-catenin is an adherens junction protein. Adherens junctions (AJs; also called the zonula adherens) are critical for the establishment and maintena epithelial layers, such as those lining organ surfaces. AJs mediate adhesion between cells, communicate a signal that neighboring cells are present, ar anchor the actin cytoskeleton. In serving these roles, AJs regulate normal cell growth and behavior. At several stages of embryogenesis, wound healing tumor cell metastasis, cells form and leave epithelia. This process, which involves the disruption and reestablishment of epithelial cell-cell contacts, ma regulated by the disassembly and assembly of AJs. AJs may also function in the transmission of the 'contact inhibition' signal, which instructs cells to st dividing once an epithelial sheet is complete. [supplied by OMIM]

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 nece 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 add dry ice fee may apply.
Searchable Terms for CTNNB1 purchase	MBS6227135 is an antibody targeting CTNNB1. Also known as CTNNB1 (Catenin (Cadherin-Associated Protein), beta 1, 88kD, CTNNB, DKFZp686D0 FLJ25606, FLJ37923) (MaxLight 650). Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	37590638
NCBI GeneID	1499
NCBI Accession #	AAH58926
UniProt Related Accession #	P35222
NCBI Official Full Name	Catenin (cadherin-associated protein), beta 1, 88kDa
NCBI Official Synonym Full Names	catenin beta 1
NCBI Official Symbol	CTNNB1
NCBI Official Synonym Symbols	EVR7; CTNNB; MRD19; NEDSDV; armadillo
Protein Family	Catenin
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]
Research Articles on CTNNB1	**1.** Detailed cell fractionation, immunoprecipitation, microscopy, and immunohistochemical analyses demonstrated that CDCP1 promotes translocation of the key regulators of Wnt signaling, b-catenin, and E-cadherin, to the nucleus. Of functional importance, disruption of CDCP1 reduces nuclear localized, chromatin-associated b-catenin and nuclear localized E-cadherin, increases sequestration of these proteins in cell membranes
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