

# CTNNB1 Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM50085

## Basic Information

**Catalog No.**

RM50085

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockdown

## Gene Information

**Gene Symbol**

CTNNB1

**Species**

Human

**Gene ID**

1499

**Swiss Prot**

P35222

**Synonyms**EVR7; CTNNB; MRD19; NEDSDV;  
armadillo; in

## Contact

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## Background

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), pilomatixoma (PTR), medulloblastoma (MDB), and ovarian cancer. Alternative splicing results in multiple transcript variants.

## Product Information

**Description**

CTNNB1 Knockdown cell line is engineered from 293T cell line with Gene-Editing Technology. Allele-1:1bp insertion in exon2

Allele-2:WT

Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

**Packaging**

1 vial parental cell Lysate and 1 vial knockout cell Lysate

**Shipping Conditions**

4°C

**Amount**

50µL, 2µg/µL.

**Storage**

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

**Protocol**

To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

## Sequencing data

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WT CATGGAACCAGACAGAAAA GCGGCTGTTAGTCACTGGC  
Mut CATGGAACCAGACAGAAAAAGCGGCTGTTAGTCACTGGC  
Allele-1: 1bp insertion in exon2

WT CCATGGAACCAGACAGAAAAAGCGGCTGTTAGTCACTGGCA  
Mut CCATGGAACCAGACAGAAAAAGCGGCTGTTAGTCACTGGCA  
Allele-2: WT

Genome sequence analysis of PCR products from parental (WT) and CTNNB1 knockdown (KD) 293T cells, using sanger sequencing.