

# CTNNA1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02039

## Basic Information

**Catalog No.**

RM02039

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

CTNNA1

**Species**

Human

**Gene ID**

1495

**Swiss Prot**

P35221

**Synonyms**

CAP102; MDPT2

## Contact

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## Background

This gene encodes a member of the catenin family of proteins that play an important role in cell adhesion process by connecting cadherins located on the plasma membrane to the actin filaments inside the cell. The encoded mechanosensing protein contains three vinculin homology domains and undergoes conformational changes in response to cytoskeletal tension, resulting in the reconfiguration of cadherin-actin filament connections. Certain mutations in this gene cause butterfly-shaped pigment dystrophy. [provided by RefSeq, May 2016]

## Product Information

**Description**

CTNNA1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:85bp deletion in exon2

Allele-2:85bp deletion in exon2

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 TTTCTGGAAACCA\*\*\*\*\*TGCCAACAAATTGA  
Mut TTTCTGGAAACCA\*\*\*Deletion\*\*\*TGCCAACAAATTGA  
Allele-1: 85bp deletion in exon2  
WT TTTCTGGAAACCA\*\*\*\*\*TGCCAACAAATTGA  
Mut TTTCTGGAAACCA\*\*\*Deletion\*\*\*TGCCAACAAATTGA  
Allele-2: 85bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and CTNNA1 knockout (KO) 293T cells, using sanger sequencing.