

# Tau Knockout SH-SY5Y Cell Lysate, Homozygous

Catalog No.: RM50105

## Basic Information

**Catalog No.**

RM50105

**Category**

Cell Lysate

**Parental Cell line**

SH-SY5Y

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

Tau

**Species**

Human

**Gene ID**


4137

**Swiss Prot**

P10636

**Synonyms**TAU; MSTD; PPNB; DDPAC; MAPTL;  
MTBT1; MTBT2; tau-40; FTDP-17;  
PPP1R103; Tau-PHF6; Tau

## Contact

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## Background

This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type. MAPT gene mutations have been associated with several neurodegenerative disorders such as Alzheimer's disease, Pick's disease, frontotemporal dementia, cortico-basal degeneration and progressive supranuclear palsy.

## Product Information

**Description**

Tau Knockout cell line is engineered from SH-SY5Y cell line with Gene-Editing Technology.

Allele-1:64bp deletion in exon1

Allele-2:64bp deletion in exon1

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 CTGGGACGTACG\*\*\*\*\*CGCTGGCCTGAA  
Mut CTGGGACGTACG\*\*\*Deletion(64bp)\*\*\*CGCTGGCCTGAA  
Allele-1: 64bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and Tau knockout (KO) SH\_SY5Y cells, using sanger sequencing.

WT CTGGGACGTACG\*\*\*\*\*CGCTGGCCTGAA  
Mut CTGGGACGTACG\*\*\*Deletion(64bp)\*\*\*CGCTGGCCTGAA  
Allele-2: 64bp deletion in exon1