

MAPT Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02046

Basic Information

Catalog No.

RM02046

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

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. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol

MAPT

Species

Human

Gene ID

4137

Swiss Prot

P10636

Synonyms

DDPAC; FTDP-17; MAPTL; MSTD; MTBT1; MTBT2; PPND; PPP1R103; TAU

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Product Information

Description

MAPT Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:149bp deletion in exon3

Allele-2:151bp deletion in exon3

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

WT GACCTATCCCAGAG*****TGCCACGGAGCTCT
Mut GACCTATCCCAGAG***Deletion***TGCCACGGAGCTCT
Allele-1: 149bp deletion in exon3

WT GACCTATCCCAGAG*****CCACGGAGCTCTGC
Mut GACCTATCCCAGAG***Deletion***CCACGGAGCTCTGC
Allele-2: 151bp deletion in exon3

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