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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; PPND; DDPAC; MAPTL; MTBT1; MTBT2; tau-40; FTDP-17; PPP1R103; Tau-PHF6; Tau

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

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℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

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

WT     CTGGGACGTACG********************CGCTGGCCTGAA
Mut    CTGGGACGTACG***Deletion(64bp)***CGCTGGCCTGAA
Allele-2:  64bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and Tau knockout (KO) SH_SY5Y cells, using sanger sequencing.