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MAP1LC3B Knockout 293T Cell Line, Homozygous

Catalog No.: RM09015

Basic Information

Catalog No.
RM09015

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

The product of this gene is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. Studies on the rat homolog implicate a role for this gene in autophagy, a process that involves the bulk degradation of cytoplasmic component.

Gene Information

Gene Symbol
MAP1LC3B

Species
Human

Gene ID
81631

Swiss Prot
Q9GZQ8

Synonyms
ATG8F; LC3B; MAP1A/1BLC3; MAP1LC3B-a

Product Information

Description
MAP1LC3B Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:exon2 was deleted
Allele-2:exon2 was deleted
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 line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial.

Storage
Stored in liquid nitrogen for a long time less than -130℃. Minimizing freeze-thaw cycles.

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Contact

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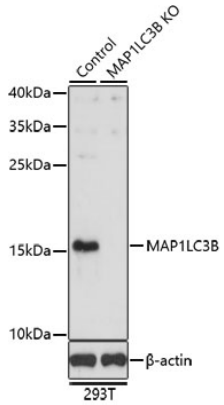
Sequencing data

WT TGTGCCACAGC**********AGAGGAGAGCA
Mut TGTGCCACAGC***Deletion(189bp)***AGAGGAGAGCA
Allele-1: exon2 was deleted

WT TCTGCTGTGCC**********CAGAGGAGAGC
Mut TCTGCTGTGCC***Deletion(193bp)**CAGAGGAGAGC
Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and MAP1LC3B knockout (KO) 293T cells, using sanger sequencing.

WB data



Western blot analysis of extracts from parental (Control) and MAP1LC3B knockout (KO) 293T cells, using MAP1LC3B antibody (A7198) at 1:1000 dilution.