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MAP1LC3A Knockout 293T Cell Line, Homozygous

Catalog No.: RM50076

Basic Information

Catalog No.
RM50076

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. The protein encoded by this gene is one of the light chain subunits and can associate with either MAP1A or MAP1B. Two transcript variants encoding different isoforms have been found for this gene. The expression of variant 1 is suppressed in many tumor cell lines, suggesting that may be involved in carcinogenesis.

Gene Information

Gene Symbol
MAP1LC3A

Species
Human

Gene ID
84557

Swiss Prot
Q9H492

Synonyms
LC3; LC3A; ATG8E; MAP1ALC3; MAP1BLC3; MAP1LC3A

Product Information

Description
MAP1LC3A 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 GCTGTCCGCAG**********GCGTTCCCGACA
Mut GCTGTCCGCAG******Deletion******GCGTTCCCGACA
Allele-1: exon2 was deleted

WT GCTGTCCGCAGC**********GTTCCCGACACG
Mut GCTGTCCGCAGC*****Deletion*******GTTCCCGACACG
Allele-2: exon2 was deleted

Genome sequence analysis of PCR products from parental (WT) and MAP1LC3A knockout (KO) 293T cells, using sanger sequencing.