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MAP1LC3A Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50108

Basic Information

Catalog No.
RM50108

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
MAP1LC3A□293T□□□

Species
Human

Gene ID
84557

Swiss Prot
Q9H492

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

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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.

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 Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. 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 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.