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MAP1LC3B Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50133

Basic Information

Catalog No.
RM50133

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
MAP1LC3B

Species
Human

Gene ID
81631

Swiss Prot
Q9GZQ8

Synonyms
LC3B; ATG8F; MAP1LC3B-a; MAP1A/1BLC3; 3B

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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.

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 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 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.

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