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MICU1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50159

Basic Information

Catalog No.
RM50159

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes an essential regulator of mitochondrial Ca2+ uptake under basal conditions. The encoded protein interacts with the mitochondrial calcium uniporter, a mitochondrial inner membrane Ca2+ channel, and is essential in preventing mitochondrial Ca2+ overload, which can cause excessive production of reactive oxygen species and cell stress. Alternatively spliced transcript variants encoding different isoforms have been described.

Gene Information

Gene Symbol
MICU1

Species
Human

Gene ID
10367

Swiss Prot
Q9BPX6

Synonyms
CALC; EFHA3; MPXPS; CBARA1; ara
CALC; MICU1

Product Information

Description
MICU1 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:133bp deletion in exon3
Allele-2:133bp deletion in exon3
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.

Contact

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Sequencing data

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WT    CATTCGCTCCCAAA**********ATTTCAGCGTAAAC
Mut   CATTCGCTCCCAAA***Deletion***ATTTCAGCGTAAAC
Allele-1:   133bp deletion in exon3

WT    CATTCGCTCCCAAA**********ATTTCAGCGTAAAC
Mut   CATTCGCTCCCAAA***Deletion***ATTTCAGCGTAAAC
Allele-2:   133bp deletion in exon3
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Genome sequence analysis of PCR products from parental (WT) and MICU1 knockout (KO) 293T cells, using sanger sequencing.