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MICU2 Knockdown 293T cell lysate, Heterozygous

Catalog No.: RM50190

Basic Information

Catalog No.
RM50190

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockdown

Background

Enables protein heterodimerization activity. Involved in calcium import into the mitochondrion and negative regulation of mitochondrial calcium ion concentration. Located in mitochondrial inner membrane and mitochondrial intermembrane space. Part of uniplex complex.

Gene Information

Gene Symbol
MICU2

Species
Human

Gene ID
221154

Swiss Prot
Q8IYU8

Synonyms
EFHA1; 1110008L20Rik; MICU2

Product Information

Description
MICU2 Knockdown cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:105bp deletion in exon1
Allele-2:110bp deletion in exon1
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    GGCGGAAAACTGCG**********CCGCGTCAGTGTTG
Mut   GGCGGAAAACTGCG***Deletion***CCGCGTCAGTGTTG
Allele-1:   105bp deletion in exon1

WT    GGCGGAAAACTGCG**********TCAGTGTTGCGGCG
Mut   GGCGGAAAACTGCG***Deletion***TCAGTGTTGCGGCG
Allele-2:   110bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and MICU2 knockdown (KD) 293T cells, using sanger sequencing.