

MICU2 Knockdown 293T cell lysate, Heterozygous

Catalog No.: RM50190

Basic Information

Catalog No.

RM50190

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockdown

Gene Information

Gene Symbol

MICU2

Species

Human

Gene ID

221154

Swiss Prot

Q8IYU8

Synonyms

EFHA1; 1110008L20Rik; MICU2

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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.

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°C

Amount

50μL, 2μg/μL.

Storage

Lysate is stable for 12 months when stored at -20°C. 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 GGCGGAAACTGCG*****CCGCGTCAGTGTG
Mut GGCGGAAACTGCG***Deletion***CCGCGTCAGTGTG
Allele-1: 105bp deletion in exon1

WT GGCGGAAACTGCG*****TCAGTGTGCGGCG
Mut GGCGGAAACTGCG***Deletion***TCAGTGTGCGGCG
Allele-2: 110bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and MICU2 knockdown (KD) 293T cells, using sanger sequencing.