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NDUFA11 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50015

Basic Information

Catalog No.
RM50015

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
NDUFA11

Species
Human

Gene ID
126328

Swiss Prot
Q86Y39

Synonyms
B14.7; MC1DN14; CI-B14.7; NDUFA11

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Background

This gene encodes a subunit of the membrane-bound mitochondrial complex I. Complex I is composed of numerous subunits and functions as the NADH-ubiquinol reductase of the mitochondrial electron transport chain. Mutations in this gene are associated with severe mitochondrial complex I deficiency. Alternate splicing results in multiple transcript variants.

Product Information

Description
NDUFA11 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:61bp deletion in exon3
Allele-2:61bp 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
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

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WT    CCTCACCACCTGCA**********CGGAGGCCTGACT
Mut   CCTCACCACCTGCA***Deletion***CGGAGGCCTGACT
Allele-1:   61bp deletion in exon3

WT    CCTCACCACCTGCA**********CGGAGGCCTGACT
Mut   CCTCACCACCTGCA***Deletion***CGGAGGCCTGACT
Allele-2:   61bp deletion in exon3
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Genome sequence analysis of PCR products from parental (WT) and NDUFA11 knockout (KO) 293T cells, using sanger sequencing.