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NDUFAF3 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50002

Basic Information

Catalog No.
RM50002

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Background

This gene encodes a mitochondrial complex I assembly protein that interacts with complex I subunits. Mutations in this gene cause mitochondrial complex I deficiency, a fatal neonatal disorder of the oxidative phosphorylation system. Alternatively spliced transcript variants encoding different isoforms have been identified.

Gene Information

Gene Symbol
NDUFAF3

Species
Human

Gene ID
25915

Swiss Prot
Q9BU61

Synonyms
2P1; E3-3; C3orf60; MC1DN18

Product Information

Description
NDUFAF3 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:113bp deletion in exon2
Allele-2:113bp deletion in exon2
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.

Contact

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Sequencing data

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WT    GCTCTCGCCGGCGG**********CTCGGCCCCTGCGC
Mut   GCTCTCGCCGGCGG***Deletion***CTCGGCCCCTGCGC
Allele-1:   113bp deletion in exon2

WT    GCTCTCGCCGGCGG**********CTCGGCCCCTGCGC
Mut   GCTCTCGCCGGCGG***Deletion***CTCGGCCCCTGCGC
Allele-2:   113bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and NDUFAF3 knockout (KO) HeLa cells, using sanger sequencing.