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NDUFB11 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50005

Basic Information

Catalog No.
RM50005

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Background

The protein encoded by this gene is a subunit of the multisubunit NADH:ubiquinone oxidoreductase (complex I). Mammalian complex I is located at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to ubiquinone. Mutations in the human gene are associated with linear skin defects with multiple congenital anomalies 3 and mitochondrial complex I deficiency.

Gene Information

Gene Symbol
NDUFB11

Species
Human

Gene ID
54539

Swiss Prot
Q9NX14

Synonyms
ESSS; Np15; P17.3; NP17.3; CI-ESSS; MC1DN30; NDUFB11

Product Information

Description
NDUFB11 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:86bp deletion in exon1
Allele-2:85bp 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    AGCGCTCGCCGTCT**********CTGTGGCGGGAAAG
Mut   AGCGCTCGCCGTCT***Deletion***CTGTGGCGGGAAAG
Allele-1:    86bp deletion in exon1

WT    GCGCTCGCCGTCTT**********CTGTGGCGGGAAAG
Mut   GCGCTCGCCGTCTT***Deletion***CTGTGGCGGGAAAG
Allele-2:    85bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and NDUFB11 knockout (KO) HeLa cells, using sanger sequencing.