

NDUFB11 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50005

Basic Information

Catalog No.

RM50005

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

NDUFB11

Species

Human

Gene ID

54539

Swiss Prot

Q9NX14

Synonyms

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

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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.

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°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 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

Genome sequence analysis of PCR products from parental (WT) and NDUFB11 knockout (KO) HeLa cells, using sanger sequencing.