

NDUFB6 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02795

Basic Information

Catalog No.

RM02795

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

NDUFB6

Species

Human

Gene ID

4712

Swiss Prot

O95139

Synonyms

CI; B17

Contact

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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 composed of 45 different subunits. It locates at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. Alternative splicing occurs at this locus and three transcript variants encoding distinct isoforms have been identified.

Product Information

Description

NDUFB6 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:exon1 was deleted

Allele-2:exon1 was deleted

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 GTCCTTTGCGTTG*****CGCTCAGTGCTCTG
Mut GTCCTTTGCGTTG***Deletion***CGCTCAGTGCTCTG
Allele-1: exon1 was deleted

WT CGTTGGTACCAGCG*****CAAGGACTGATAA
Mut CGTTGGTACCAGCG***Deletion***CAAGGACTGATAA
Allele-2: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and NDUFB6 knockout (KO) HeLa cells, using sanger sequencing.