

# 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

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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.