

# Human NDUFB10 Knockdown Cell Line (WB-Validated)



**Catalog #: C64849**

## Aliases

NDUFB10; NADH:Ubiquinone Oxidoreductase Subunit B10; PDSW; NADH Dehydrogenase (Ubiquinone) 1 Beta Subcomplex, 10, 22kDa; NADH Dehydrogenase [Ubiquinone] 1 Beta Subcomplex Subunit 10; NADH-Ubiquinone Oxidoreductase PDSW Subunit; Complex I PDSW Subunit; Complex I-PDSW; CI-PDSW; NADH Dehydrogenase (Ubiquinone) 1 Beta Subcomplex, 10 (22kD, PDSW); NADH Ubiquinone Oxidoreductase PDSW Subunit (RH 16p13.3); MC1DN35

## Background

Gene Name: NDUFB10

NCBI Gene Entry: [4716](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human NDUFB10 Knockdown Cell Line (Wb-Validated)
2. Wild-type cell line

## Parental Cell Line

Human cell line supplied by the client

## Validation Methods

RT-qPCR, Western blotting (WB)

## Shipping

Shipped on Dry Ice.

## Instructions For Use

This knockdown cell line should be paired with wild-type cell line for use.

**Note:** This product is for research use only.

## Validation Data

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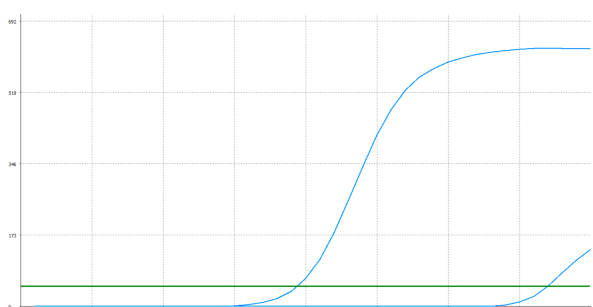
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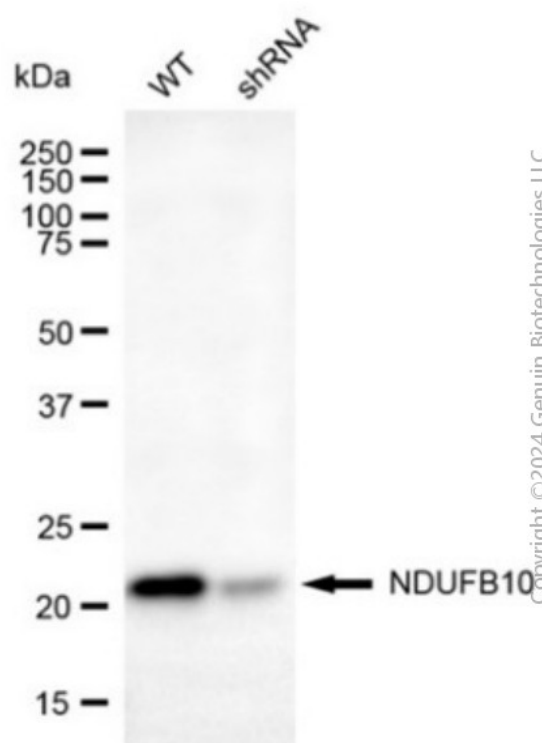
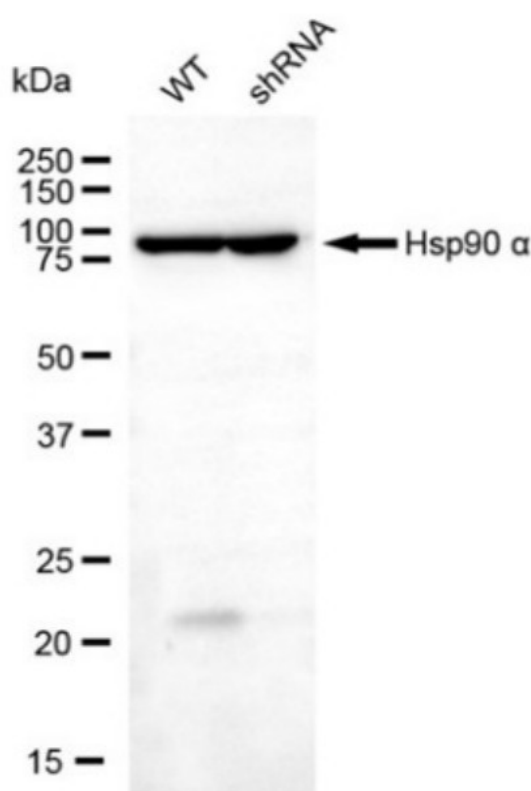
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Genotype	Ct Value
Wild-Type	19.25
Knock-Down	34.94
$\Delta Ct (Ct_{KD} - Ct_{WT})$	15.69
% mRNA Reduction	↓ 100%

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RT-qPCR analysis. HeLa cells were infected with NDUFB10-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta Ct (Ct_{KD} - Ct_{WT})$  was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula:  $(1 - 1/2^{\Delta Ct}) \times 100\%$ .



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Western blotting analysis. NDUFB10 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90  $\alpha$  served as a loading control. The blots were incubated with primary antibodies against NDUFB10 and Hsp90  $\alpha$ , respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.