Human NDUFB11 Knockdown Cell Line (WB-Validated)

Catalog #: C64865

Aliases

NDUFB11; NADH:Ubiquinone Oxidoreductase Subunit B11; NP17.3; Np15; NADH Dehydrogenase [Ubiquinone] 1 Beta Subcomplex Subunit 11, Mitochondrial; NADH Dehydrogenase (Ubiquinone) 1 Beta Subcomplex, 11, 17.3kDa; NADH-Ubiquinone Oxidoreductase ESSS Subunit; Complex I NP17.3 Subunit; Neuronal Protein 17.3; Complex I-ESSS; CI-ESSS; P17.3; MC1DN30; Np17.3; ESSS

Background

Gene Name: NDUFB11
NCBI Gene Entry: 54539

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human NDUFB11 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.

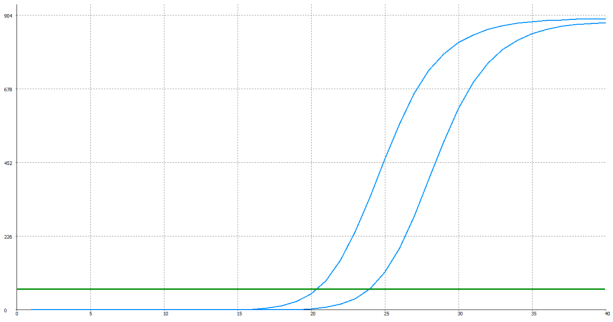
Instructions For Use

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

Note: This product is for research use only.

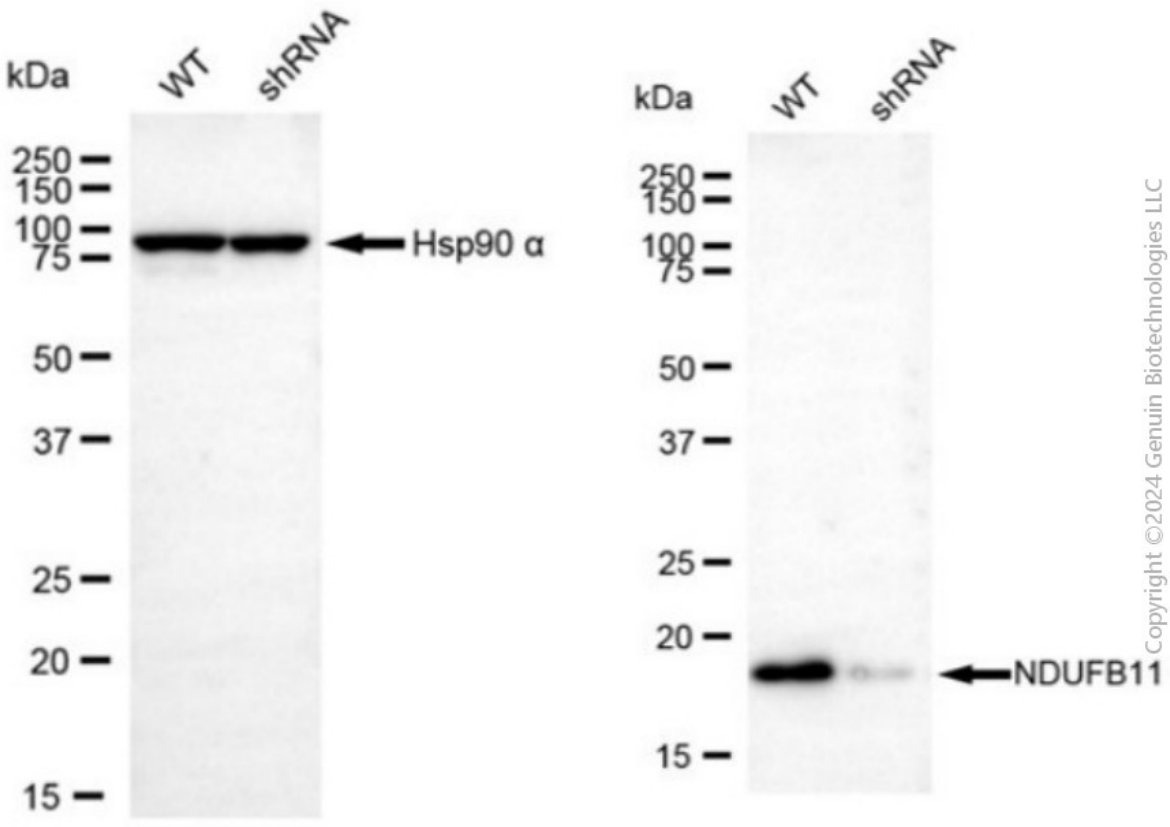
Validation Data

Human NDUFB11 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.34
Knock-Down	23.92
$\Delta Ct\ (Ct_{KD}\text{-}Ct_{WT})$	3.58
% mRNA Reduction	⬇ 92%

RT-qPCR analysis. HeLa cells were infected with NDUFB11-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2ΔCt) x 100%.



Western blotting analysis. NDUFB11 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against NDUFB11 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.