Human NDUFB9 Knockdown Cell Line (WB-Validated)

Catalog #: C62276

Aliases

NDUFB9; NADH:Ubiquinone Oxidoreductase Subunit B9; UQOR22; LYRM3; B22; NADH Dehydrogenase (Ubiquinone) 1 Beta Subcomplex, 9, 22kDa; NADH Dehydrogenase [Ubiquinone] 1 Beta Subcomplex Subunit 9; NADH-Ubiquinone Oxidoreductase B22 Subunit; LYR Motif-Containing Protein 3; Complex I B22 Subunit; CI-B22; NADH Dehydrogenase (Ubiquinone) 1 Beta Subcomplex, 9 (22kD, B22); Complex I-B22; MC1DN24

Background

Gene Name: NDUFB9
NCBI Gene Entry: 4715

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human NDUFB9 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.

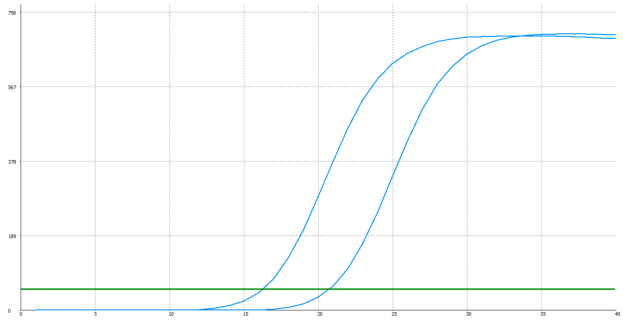
Instructions For Use

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

Note: This product is for research use only.

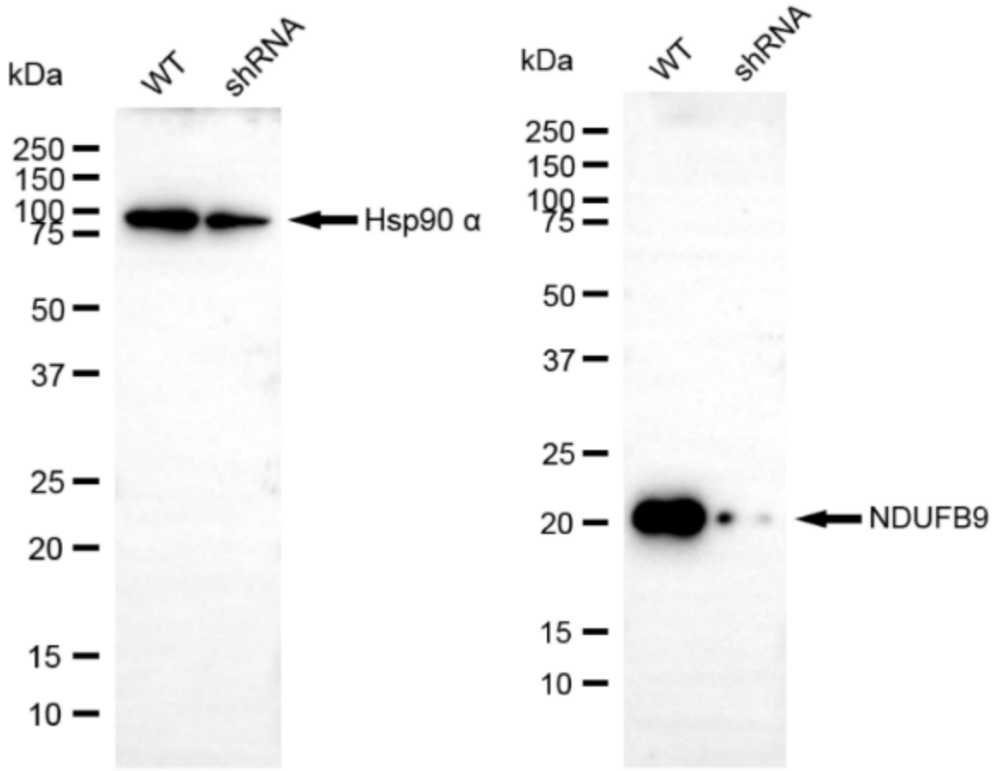
Validation Data

Human NDUFB9 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	16.13
Knock-Down	20.61
ΔCt (Ct_{KD}-Ct_{WT})	4.48
% mRNA Reduction	⬇ 96%

RT-qPCR analysis. HeLa cells were infected with NDUFB9-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. NDUFB9 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 NDUFB9 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.