

Human NDUFB2 Knockdown Cell Line (WB-Validated)



Catalog #: C65582

Aliases

NDUFB2; NADH:Ubiquinone Oxidoreductase Subunit B2; CI-AGGG; NADH-Ubiquinone Oxidoreductase AGGG Subunit; AGGG; NADH Dehydrogenase [Ubiquinone] 1 Beta Subcomplex Subunit 2, Mitochondrial; NADH Dehydrogenase (Ubiquinone) 1 Beta Subcomplex, 2, 8kDa; Complex I AGGG Subunit; Complex I-AGGG; NADH Dehydrogenase (Ubiquinone) 1 Beta Subcomplex, 2 (8kD, AGGG)

Background

Gene Name: NDUFB2
NCBI Gene Entry: [4708](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human NDUFB2 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

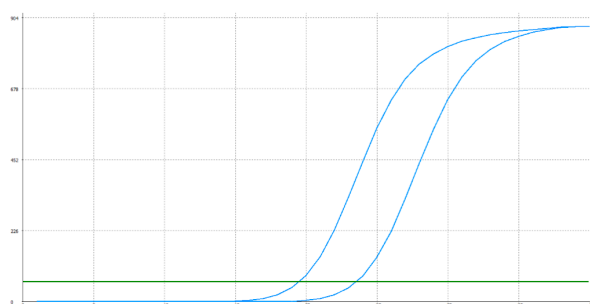
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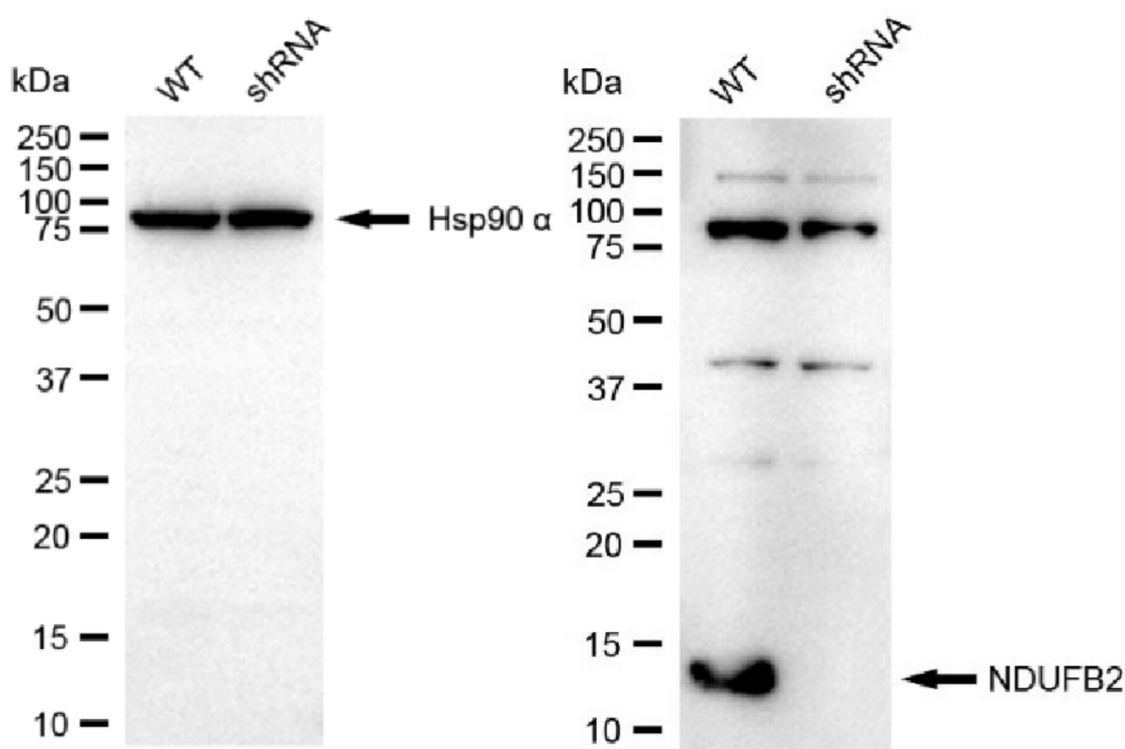
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Genotype	Ct Value
Wild-Type	19.46
Knock-Down	23.49
$\Delta Ct (Ct_{KD} - Ct_{WT})$	4.03
% mRNA Reduction	↓ 94%

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RT-qPCR analysis. HeLa cells were infected with NDUFB2-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. NDUFB2 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 NDUFB2 and Hsp90 α , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.