

Human NDUFS1 Knockdown Cell Line (WB-Validated)



Catalog #: C65225

Aliases

NDUFS1; NADH:Ubiquinone Oxidoreductase Core Subunit S1; NADH-Ubiquinone Oxidoreductase 75 KDa Subunit, Mitochondrial; CI-75k; NADH Dehydrogenase (Ubiquinone) Fe-S Protein 1, 75kDa (NADH-Coenzyme Q Reductase); Complex I 75kDa Subunit 2 3NADH Dehydrogenase (Ubiquinone) Fe-S Protein 1 (75kD) (NADH-Coenzyme Q Reductase); Mitochondrial NADH-Ubiquinone Oxidoreductase 75 KDa Subunit; Complex I, Mitochondrial Respiratory Chain, 75-KD Subunit; Complex I-75kD; EC 7.1.1.2; CI-75Kd; PRO1304; CI-75kD; MC1DN5

Background

Gene Name: NDUFS1
NCBI Gene Entry: [4719](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human NDUFS1 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

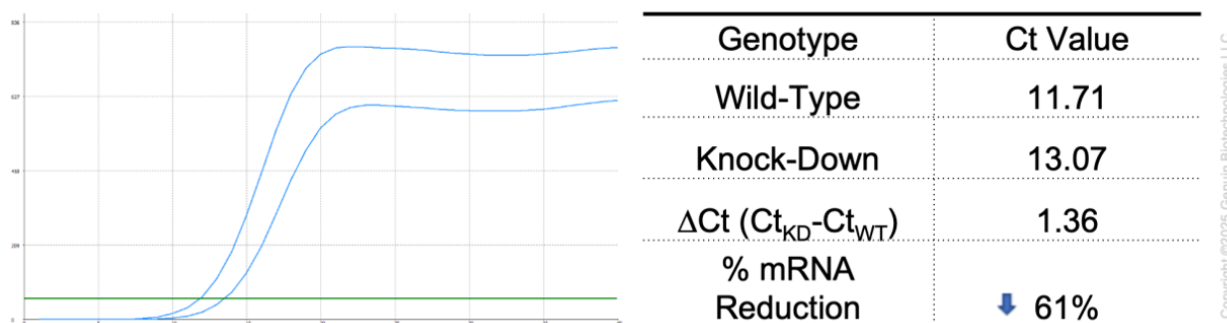
SUPPORT

SUPPORT@GENUINBIOTECH.COM
TEL: +1-540-855-7041

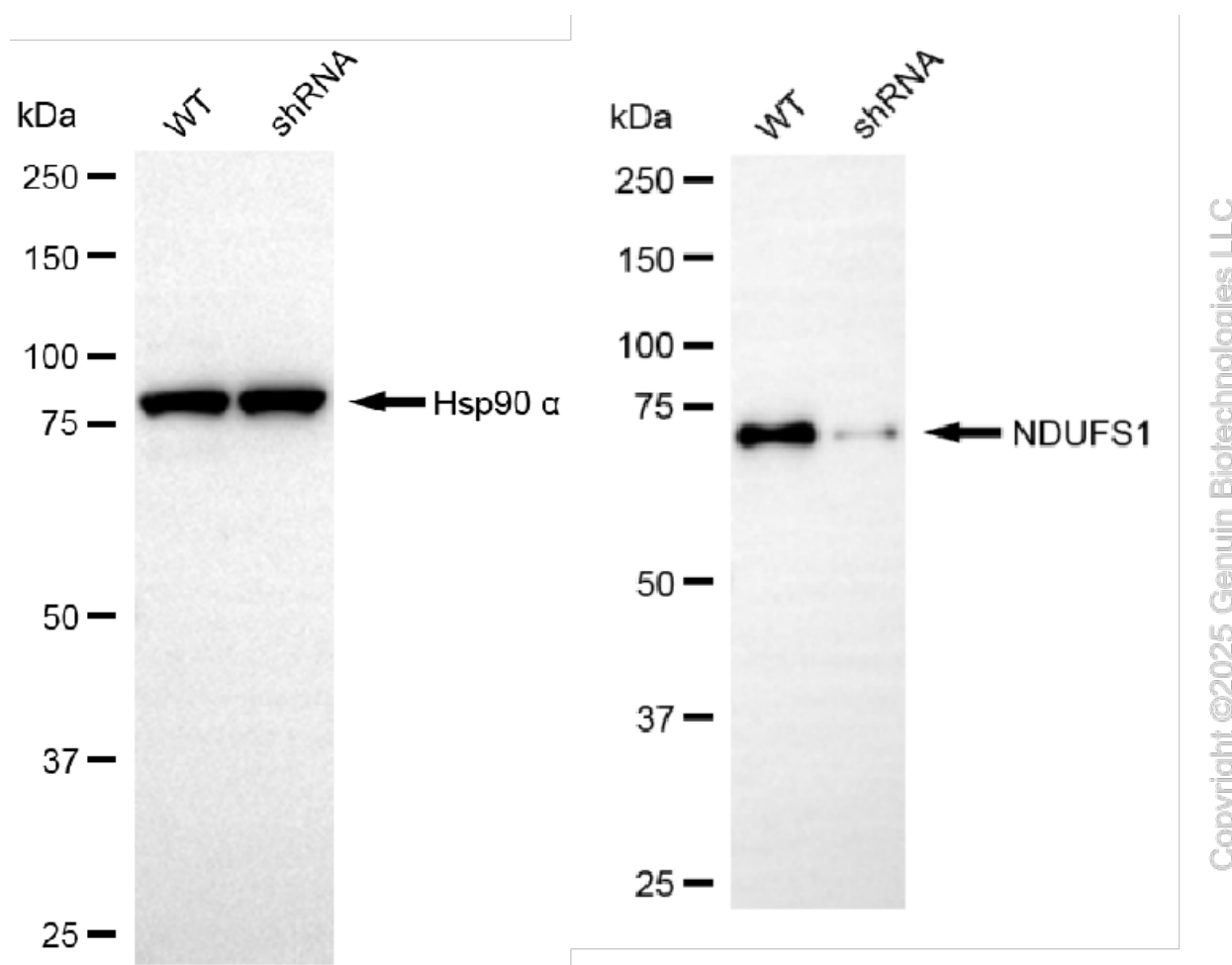
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SALES@GENUINBIOTECH.COM
FAX: +1-540-855-7041

WWW.GENUINBIOTECH.COM



RT-qPCR analysis. HT-1080 cells were infected with NDUFS1-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: $(1 - 1/2^{\Delta Ct}) \times 100\%$.



Western blotting analysis. NDUFS1 protein expression in wild-type (WT) and shRNA knockdown (KD) HT-1080 cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against NDUFS1 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were

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developed using FeQ™ ECL Substrate Kit.

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