Human UQCRFS1 Knockdown Cell Line (WB-Validated)

Catalog #: C62783

Aliases

UQCRFS1; Ubiquinol-Cytochrome C Reductase, Rieske Iron-Sulfur Polypeptide 1; RISP; Cytochrome B-C1 Complex Subunit 5; UQCR5; RIS1; RIP1; Cytochrome B-C1 Complex Subunit Rieske, Mitochondrial; Ubiquinol-Cytochrome C Reductase Iron-Sulfur Subunit; Rieske Iron-Sulfur Protein; Rieske Protein UQCRFS1; Complex III Subunit 5; Epididymis Secretory Sperm Binding Protein; EC 1.10.2.2; EC 7.1.1.8; MC3DN10

Background

Gene Name: UQCRFS1
NCBI Gene Entry: 7386

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human UQCRFS1 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.

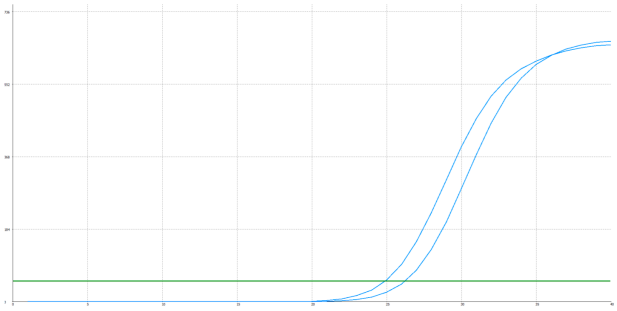
Instructions For Use

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

Note: This product is for research use only.

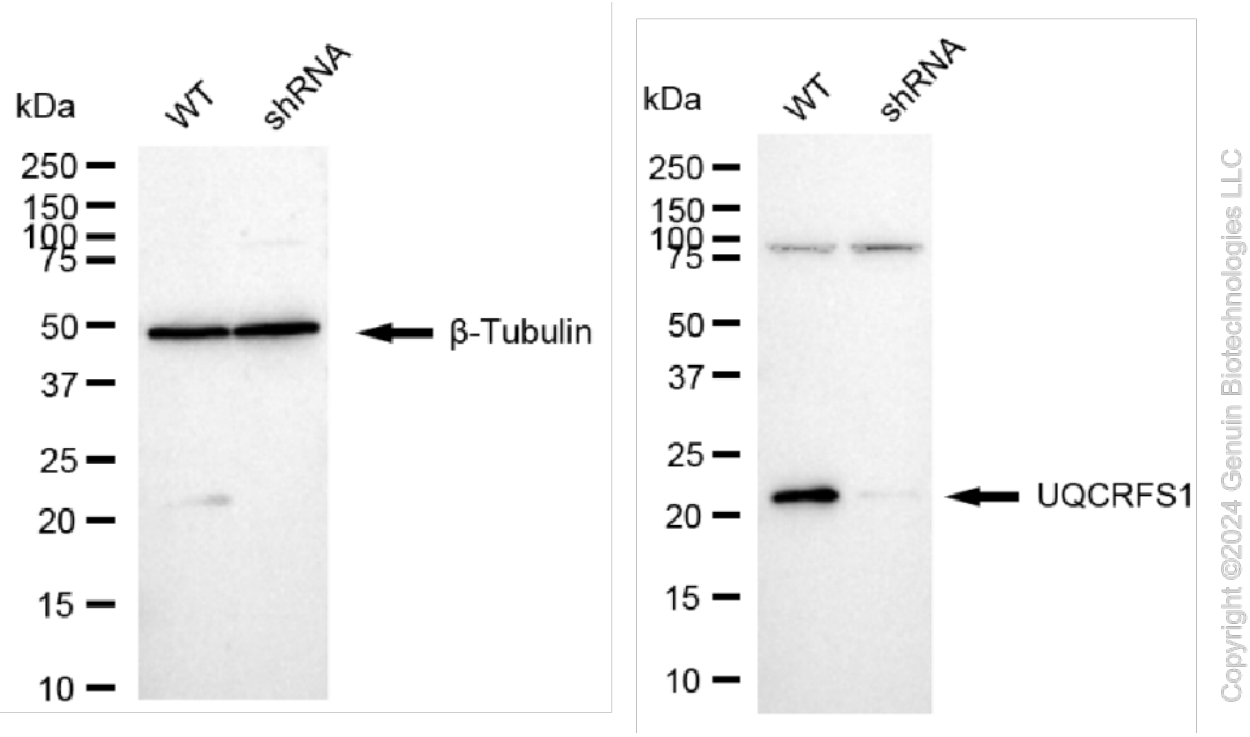
Validation Data

Human UQCRFS1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	24.66
Knock-Down	26.06
ΔCt (Ct_{KD}-Ct_{WT})	1.4
% mRNA Reduction	⬇ 62%

RT-qPCR analysis. HT-1080 cells were infected with UQCRFS1-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. UQCRFS1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies against UQCRFS1 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.