Human ATP5F1C Knockdown Cell Line (WB-Validated)

Catalog #: C63811

Aliases

ATP5F1C; ATP Synthase F1 Subunit Gamma; ATP5CL1; ATP5C1; ATP5C; ATP Synthase, H+ Transporting, Mitochondrial F1 Complex, Gamma Polypeptide 1; ATP Synthase Subunit Gamma, Mitochondrial; F-ATPase Gamma Subunit; Mitochondrial ATP Synthase, Gamma Subunit 1; ATP Synthase Gamma Chain, Mitochondrial

Background

Gene Name: ATP5F1C
NCBI Gene Entry: 509

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human ATP5F1C 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.

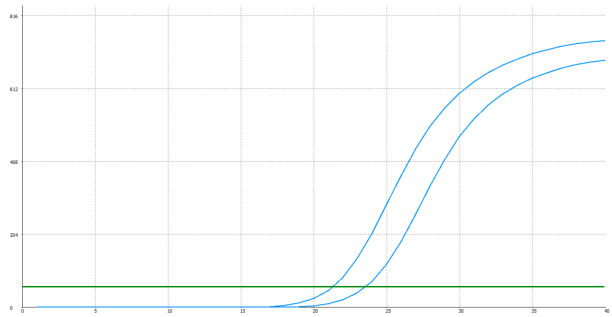
Instructions For Use

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

Note: This product is for research use only.

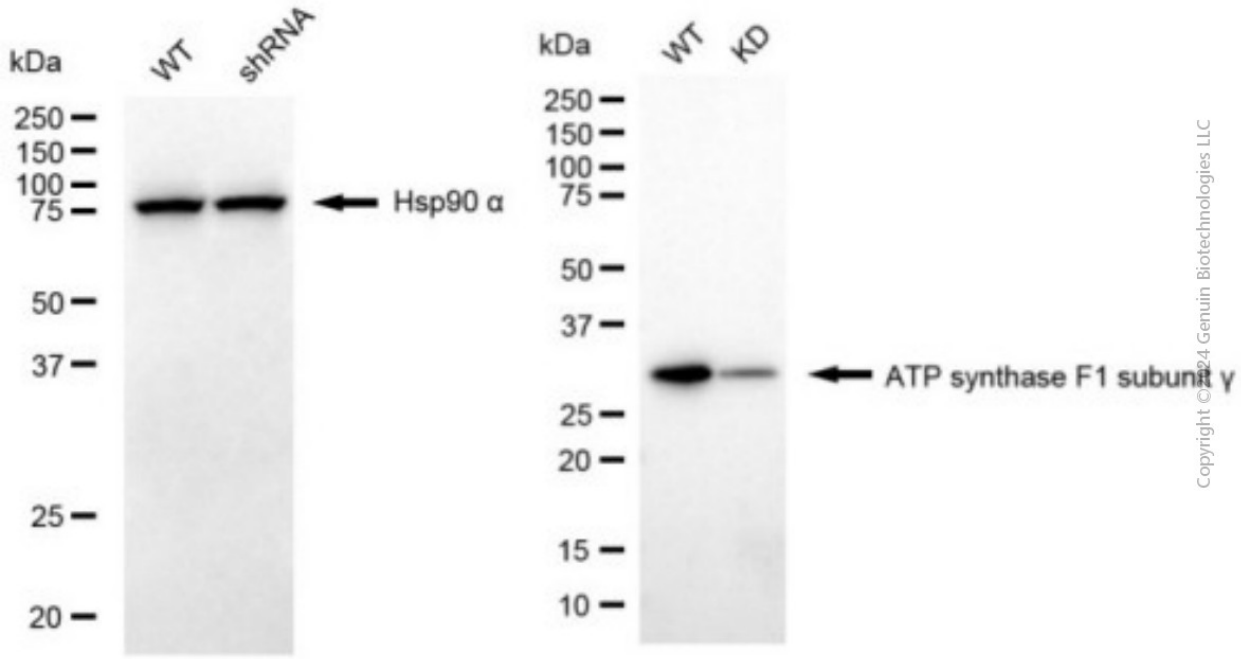
Validation Data

Human ATP5F1C Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	21.16
Knock-Down	23.28
ΔCt (Ct_{KD}-Ct_{WT})	2.12
% mRNA Reduction	⬇ 77%

RT-qPCR analysis. HT-1080 cells were infected with ATP5F1C-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. ATP5F1C 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 ATP5F1C and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.