Human ATP5F1B Knockdown Cell Line (WB-Validated)

Catalog #: C61585

Aliases

ATP5F1B; ATP Synthase F1 Subunit Beta; ATP5B; ATPSB; ATP Synthase, H+ Transporting, Mitochondrial F1 Complex, Beta Polypeptide; ATP Synthase Subunit Beta, Mitochondrial; ATPMB; Mitochondrial ATP Synthetase, Beta Subunit; Mitochondrial ATP Synthase Beta Subunit; Epididymis Secretory Protein Li 271; EC 3.6.3.14; EC 7.1.2.2; HEL-S-271; EC 3.6.3; HUMOP2

Background

Gene Name: ATP5F1B
NCBI Gene Entry: 506

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human ATP5F1B 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.

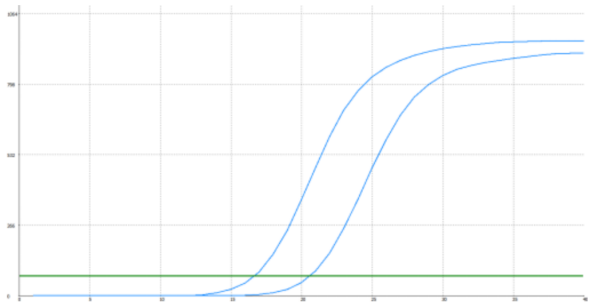
Instructions For Use

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

Note: This product is for research use only.

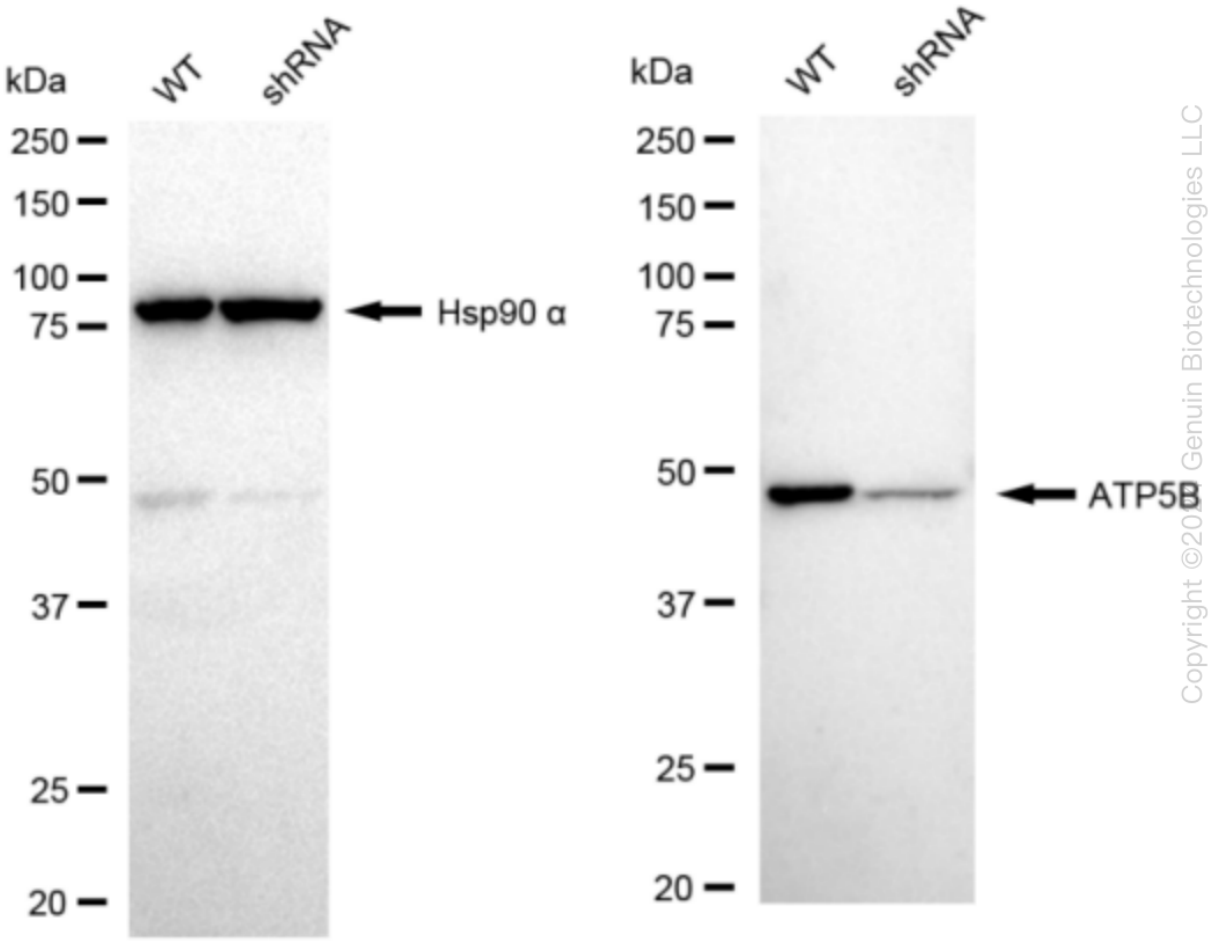
Validation Data

Human ATP5F1B Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	19.59
Knock-Down	21.94
ΔCt (Ct_{KD}-Ct_{WT})	2.35
% mRNA Reduction	⬇ 80%

RT-qPCR analysis. HeLa cells were infected with ATP5F1B-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. ATP5F1B 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(Cat#61585, 1:5,000) against ATP5F1B and Hsp90 α,

respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).