Human COX5B Knockdown Cell Line (WB-Validated)

Catalog #: C65203

Aliases

COX5B; Cytochrome C Oxidase Subunit 5B; Cytochrome C Oxidase Subunit 5B, Mitochondrial; Cytochrome C Oxidase Subunit Vb; Cytochrome C Oxidase Polypeptide VB, Mitochondrial; Epididymis Secretory Sperm Binding Protein; Cytochrome C Oxidase Polypeptide Vb; COXVB

Background

Gene Name: COX5B
NCBI Gene Entry: 1329

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human COX5B 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.

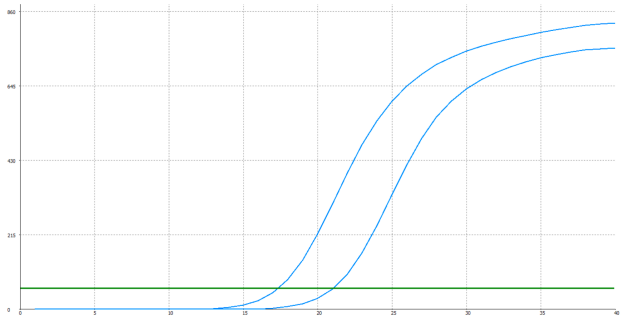
Instructions For Use

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

Note: This product is for research use only.

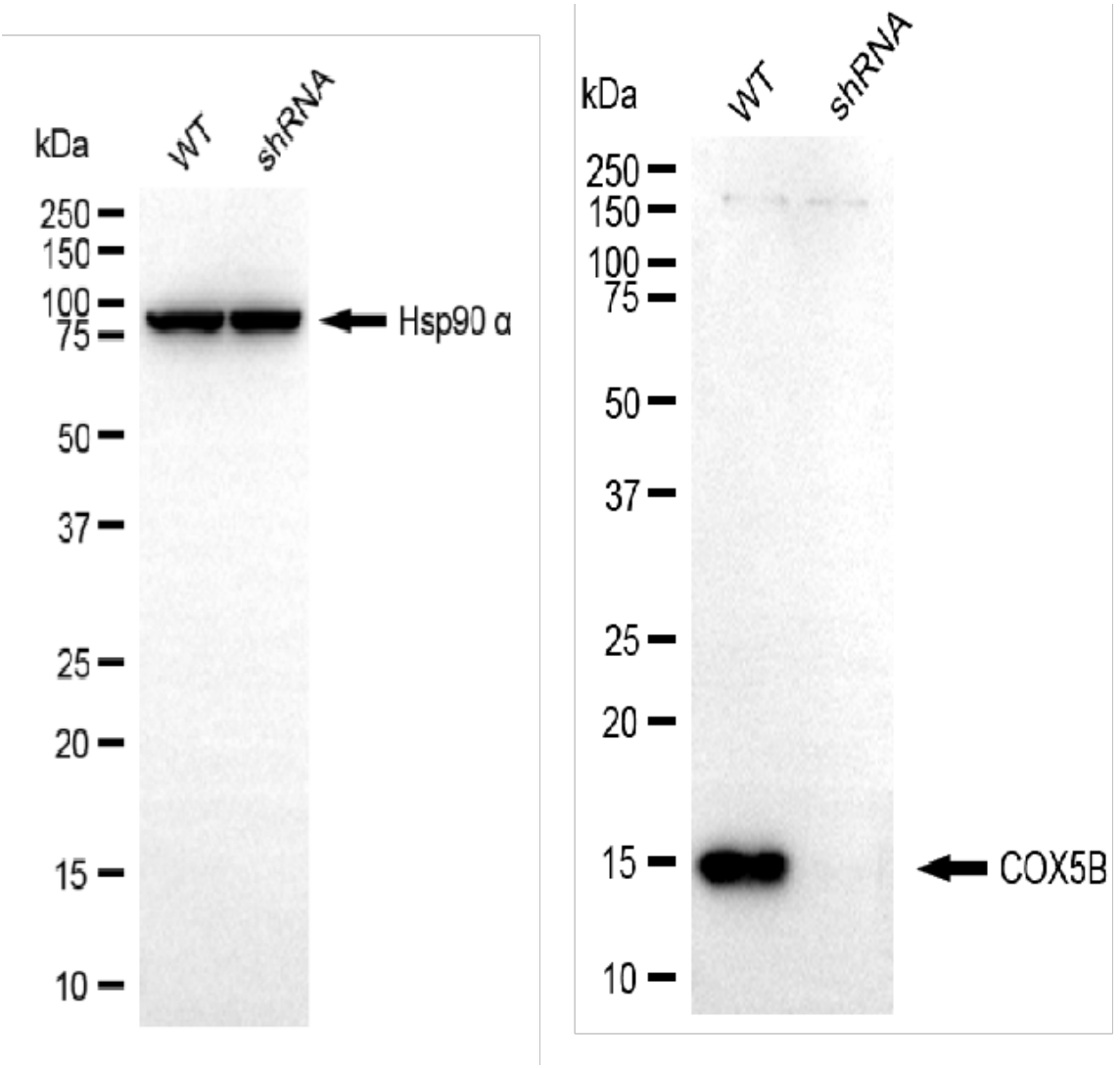
Validation Data

Human COX5B Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	17.29
Knock-Down	20.83
$\Delta Ct\ (Ct_{KD}\text{-}Ct_{WT})$	3.54
% mRNA Reduction	⬇ 91%

RT-qPCR analysis. HeLa cells were infected with COX5B-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. COX5B 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 COX5B and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.