Human PCYT1A Knockdown Cell Line (WB-Validated)

Catalog #: C63313

Aliases

PCYT1A; Phosphate Cytidylyltransferase 1A, Choline;
CTPCT; CCTalpha; PCYT1; CT; Phosphate Cytidylyltransferase 1, Choline, Alpha;
CTP:Phosphocholine Cytidylyltransferase-Alpha; Choline-Phosphate Cytidylyltransferase Alpha;
CTP:Phosphocholine Cytidylyltransferase A; Choline-Phosphate Cytidylyltransferase A;
Phosphorylcholine Transferase Alpha;
Phosphorylcholine Transferase A; EC 2.7.7.15 4; CCT-Alpha; CCT A; CT A;
Phosphate Cytidylyltransferase 1, Choline, Alpha Isoform; EC 2.7.7; SMDCRD; CCTA;
CGL5;CTA

Background

Gene Name: PCYT1A
NCBI Gene Entry: 5130

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PCYT1A 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.

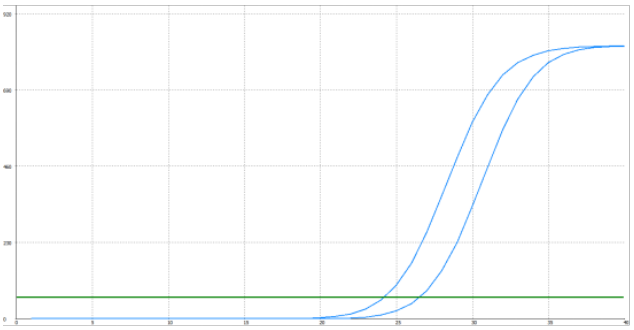
Instructions For Use

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

Note: This product is for research use only.

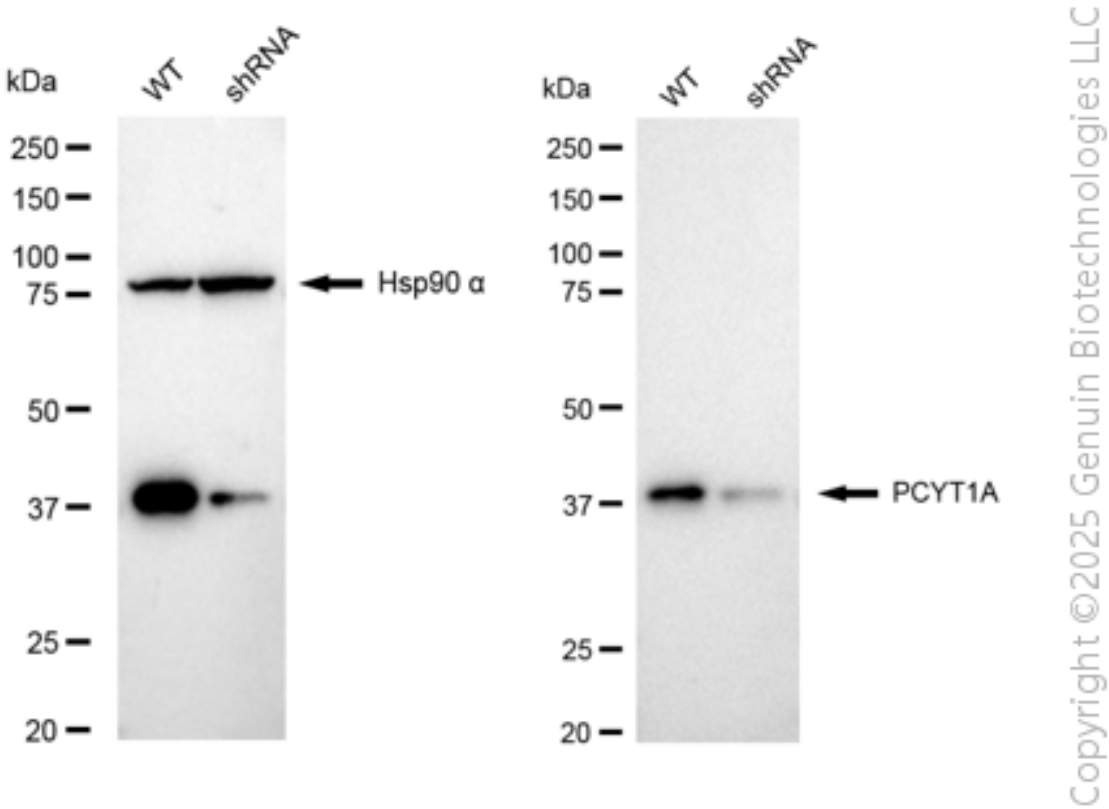
Validation Data

Human PCYT1A Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	24.05
Knock-Down	26.33
ΔCt (CtKD-CtWT)	2.28
% mRNA Reduction	79%

RT-qPCR analysis. HeLa cells were infected with PCYT1A-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. PCYT1A 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 PCYT1A and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were

developed using FeQ™ ECL Substrate Kit.