

Human CS Knockdown Cell Line (WB-Validated)



Catalog #: C1700

Aliases

CS; CitRate Synthase; CitRate Synthase, Mitochondrial; CitRate (Si)-Synthase; EC 2.3.3.1; EC 2.3.3

Background

Gene Name: CS

NCBI Gene Entry: [1431](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CS 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

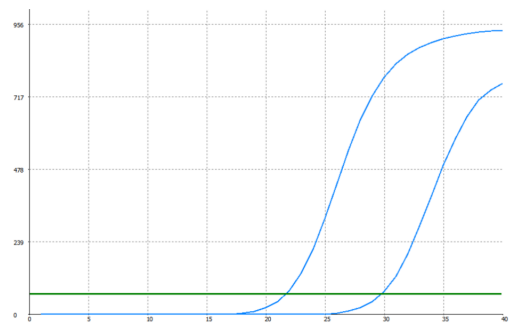
SUPPORT

SUPPORT@GENUINBIOTECH.COM
TEL: +1-540-855-7041

ORDERS

SALES@GENUINBIOTECH.COM
FAX: +1-540-855-7041

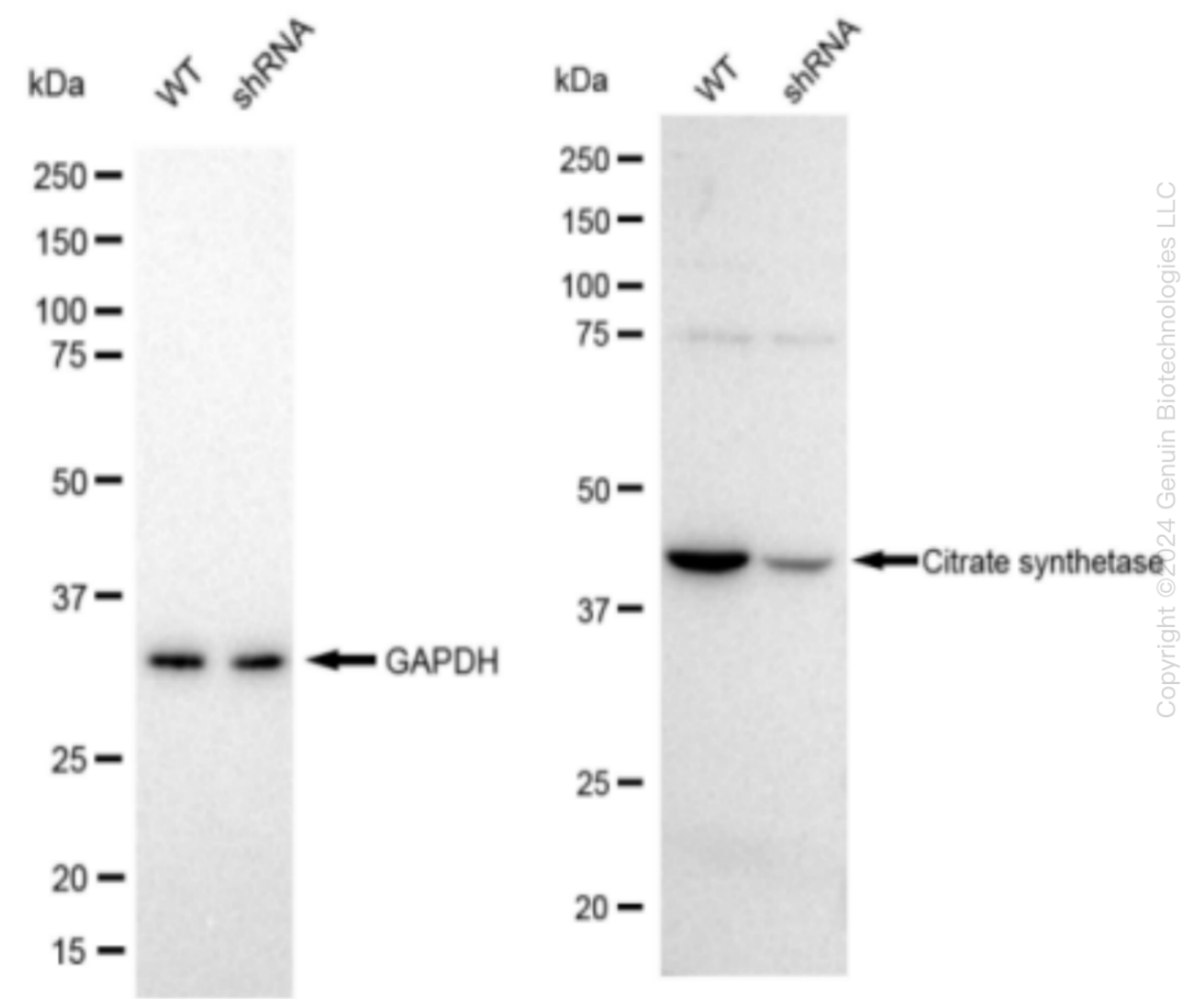
WWW.GENUINBIOTECH.COM



Genotype	Ct Value
Wild-Type	21.67
Knock-Down	29.36
$\Delta Ct (Ct_{KD}-Ct_{WT})$	7.69
% mRNA Reduction	↓ 99.5%

Copyright ©2024 Genuin Biotechnologies LLC

RT-qPCR analysis. HeLa cells were infected with CS-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. $\Delta Ct (Ct_{KD}-Ct_{WT})$ was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1-1/2^{\Delta Ct}) \times 100\%$.



Copyright ©2024 Genuin Biotechnologies LLC

Western blotting analysis. CS protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. GAPDH served as a loading control. The blots were incubated with primary antibodies (Cat#69700, 1:5,000) against CS and GAPDH, 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).