

Human CSNK1A1 Knockdown Cell Line (WB-Validated)



Catalog #: C65200

Aliases

CSNK1A1; Casein Kinase 1 Alpha 1; CK1; CK1a; CKIa; Casein Kinase I Isoform Alpha; Clock Regulator Kinase; EC 2.7.11.1; CKI-Alpha; CK1alpha; CKIalpha; Epididymis Secretory Sperm Binding Protein Li 77p; Down-Regulated In Lung Cancer; Casein Kinase 1, Alpha; HEL-S-77p; HLCDGP1; PRO2975

Background

Gene Name: CSNK1A1

NCBI Gene Entry: [1452](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human CSNK1A1 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

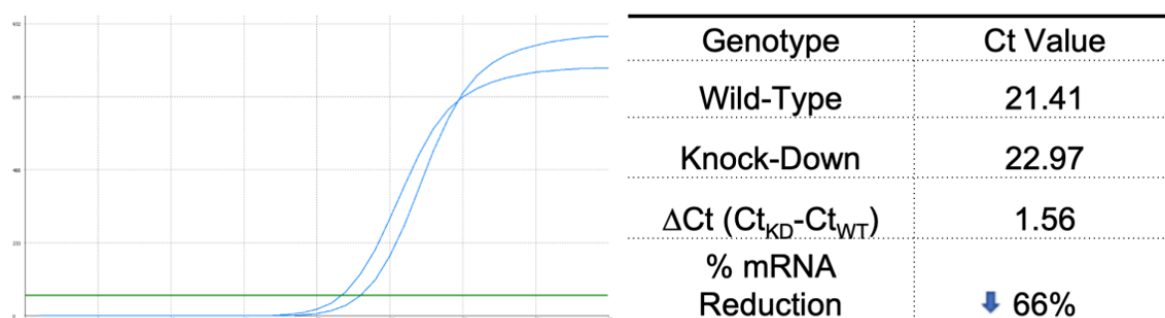
SUPPORT

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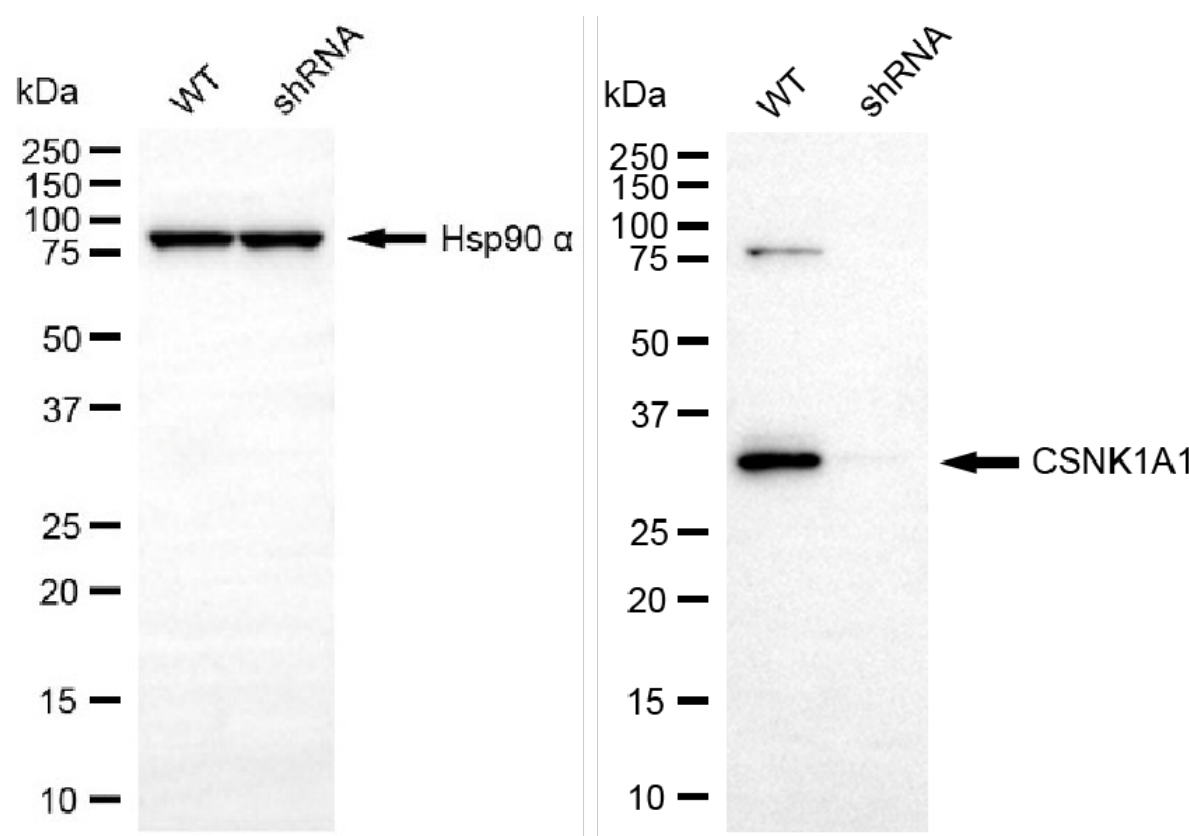
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RT-qPCR analysis. HeLa cells were infected with CSNK1A1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. $\Delta Ct (Ct_{KD} - Ct_{WT})$ was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta Ct}) \times 100\%$.



Western blotting analysis. CSNK1A1 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 CSNK1A1 and Hsp90 α , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.