

# Human ALAS1 Knockdown Cell Line (WB-Validated)



**Catalog #: C61368**

## Aliases

ALAS1; 5'-Aminolevulinate Synthase 1; ALAS-H; ALAS3; 5-Aminolevulinate Synthase, Non-Specific, Mitochondrial; Aminolevulinate, Delta-, Synthase 1; 5-Aminolevulinic Acid Synthase 1; Delta-Aminolevulinate Synthase 1; Delta-ALA Synthase 1; EC 2.3.1.37; ALASH; ALAS; 5-Aminolevulinate Synthase, Nonspecific, Mitochondrial; MigRation-Inducing Protein 4; EC 2.3.1; MIG4

## Background

Gene Name: ALAS1  
NCBI Gene Entry: [211](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human ALAS1 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

---

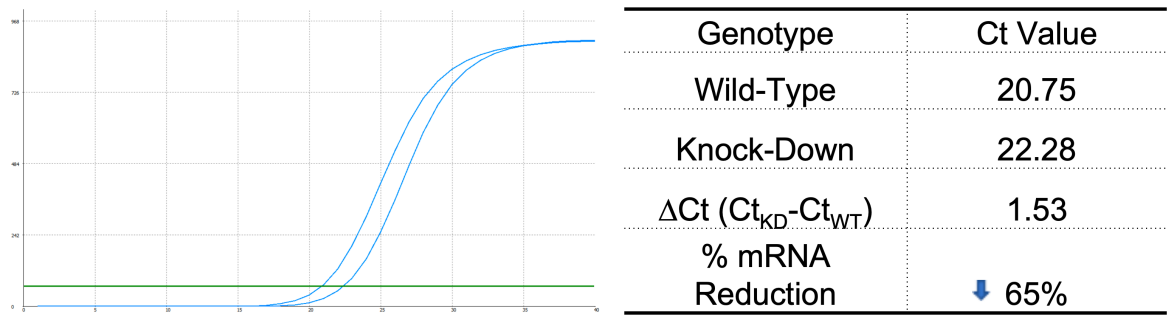
### SUPPORT

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

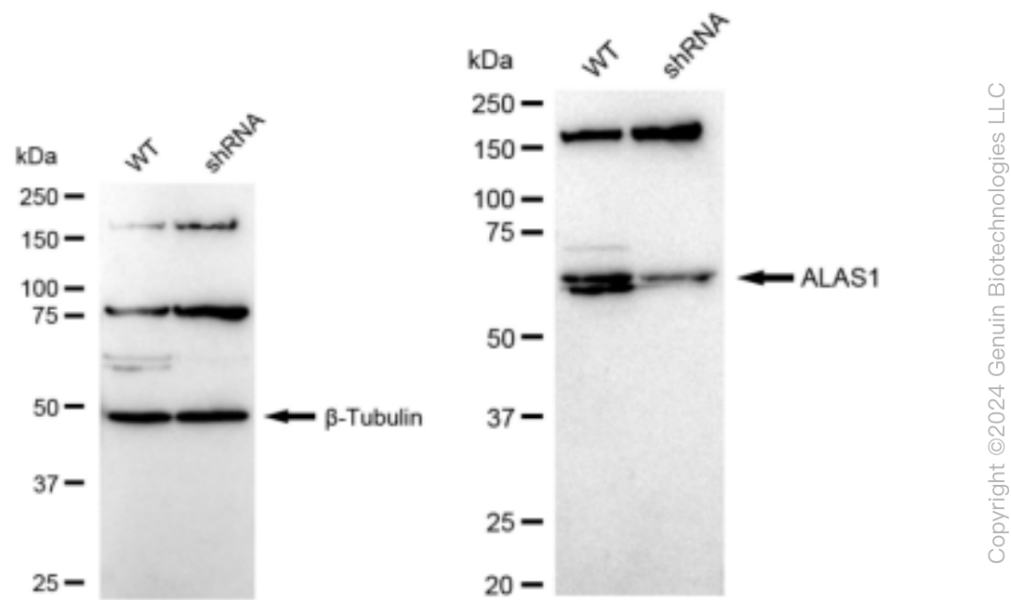
### ORDERS

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

[WWW.GENUINBIOTECH.COM](http://WWW.GENUINBIOTECH.COM)



RT-qPCR analysis. HeLa cells were infected with ALAS1-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. ALAS1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting.  $\beta$ -Tubulin served as a loading control. The blots were incubated with primary antibodies against ALAS1 and  $\beta$ -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.