

Human HDAC1 Knockdown Cell Line (WB-Validated)



Catalog #: C61852

Aliases

HDAC1; Histone Deacetylase; HD1; GON-10; RPD3L1; KDAC1; Protein Deacetylase
HDAC1; Protein Deacetylase HDAC1; EC 3.5.1.98; Reduced Potassium Dependency, Yeast
Homolog-Like 1; EC 3.5.1.; RPD3

Background

Gene Name: HDAC1
NCBI Gene Entry: [3065](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human HDAC1 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

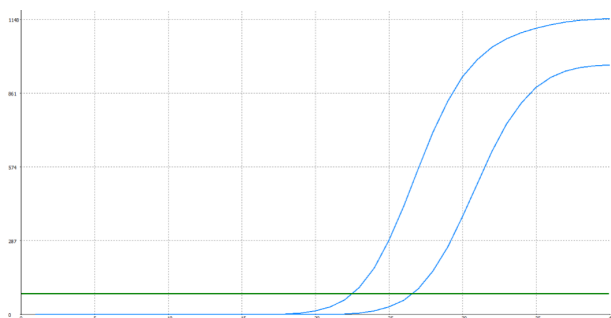
SUPPORT

SUPPORT@GENUINBIOTECH.COM
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ORDERS

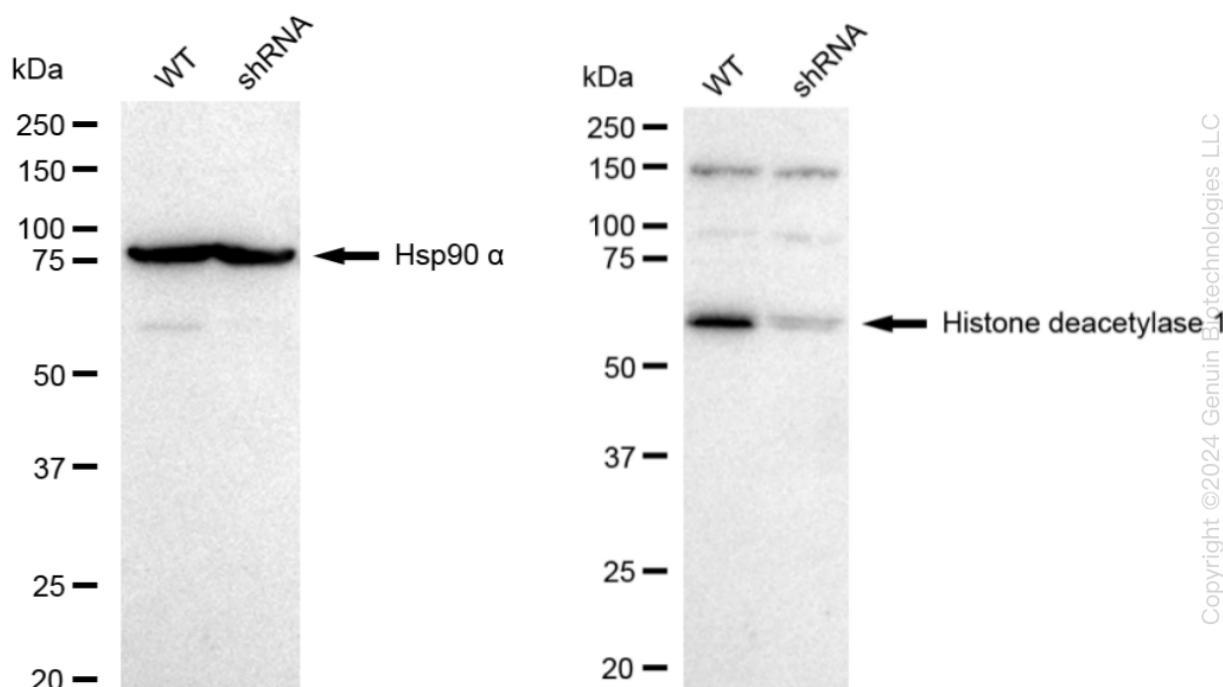
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Genotype	Ct Value
Wild-Type	22.51
Knock-Down	26.30
$\Delta Ct (Ct_{KD} - Ct_{WT})$	3.79
% mRNA Reduction	↓ 93%

RT-qPCR analysis. HeLa cells were infected with HDAC1-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. HDAC1 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 HDAC1 and Hsp90 α , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.