Human HDAC6 Knockdown Cell Line (WB-Validated)

Catalog #: C62136

Aliases

HDAC6; Histone Deacetylase 6; HD6; KIAA0901; PPP1R90; JM21; Protein Phosphatase 1, Regulatory Subunit 90; Tubulin-Lysine Deacetylase HDAC6; Alpha-Tubulin Deacetylase HDAC6; EC 3.5.1.98; FLJ16239; EC 3.5.1.-; CPBHM; KDAC6

Background

Gene Name: HDAC6
NCBI Gene Entry: 10013

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human HDAC6 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.

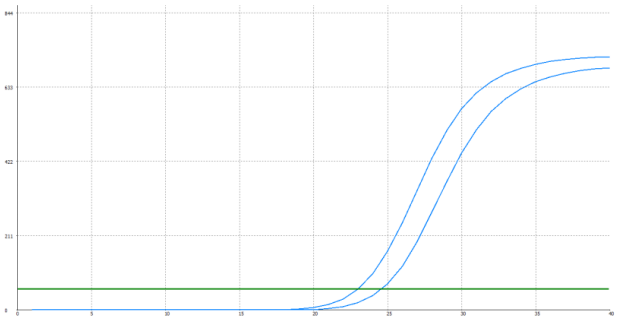
Instructions For Use

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

Note: This product is for research use only.

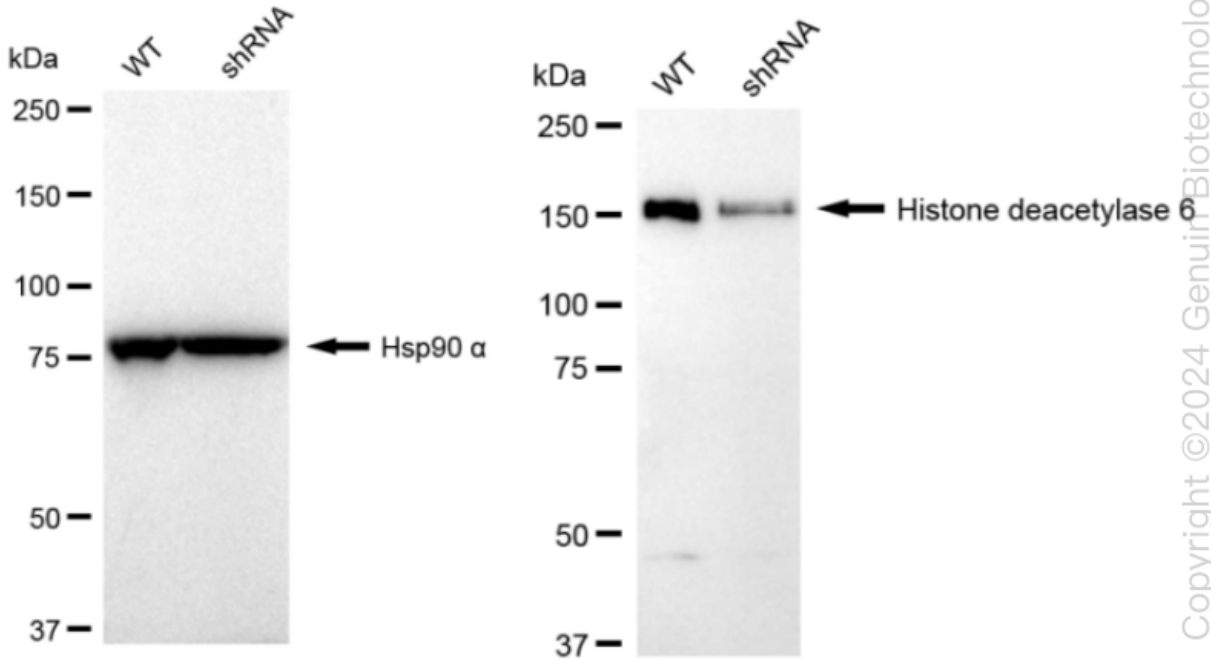
Validation Data

Human HDAC6 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	22.74
Knock-Down	24.25
ΔCt (Ct_{KD}-Ct_{WT})	1.51
% mRNA Reduction	⬇ 65%

RT-qPCR analysis. HT-1080 cells were infected with HDAC6-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. HDAC6 protein expression in wild-type (WT) and shRNA knockdown (KD) HT1080 cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies (Cat#62136, 1:20,000) against HDAC6 and Hsp90 α, 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).