Human SMYD3 Knockdown Cell Line (WB-Validated)

Catalog #: C62714

Aliases

SMYD3; SET And MYND Domain Containing 3; ZNFN3A1; ZMYND1; KMT3E; Zinc Finger MYND Domain-Containing Protein 1; Histone-Lysine N-Methyltransferase SMYD3; SET And MYND Domain-Containing Protein 3; Zinc Finger, MYND Domain Containing 1; Zinc Finger Protein, Subfamily 3A (MYND Domain Containing), 1; EC 2.1.1.354; EC 2.1.1.43; BA74P14.1; EC 2.1.1

Background

Gene Name: SMYD3
NCBI Gene Entry: 64754

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human SMYD3 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.

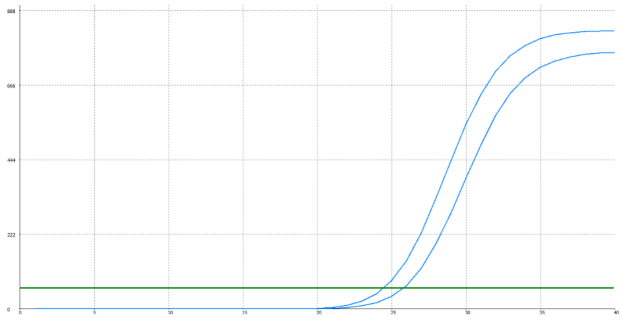
Instructions For Use

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

Note: This product is for research use only.

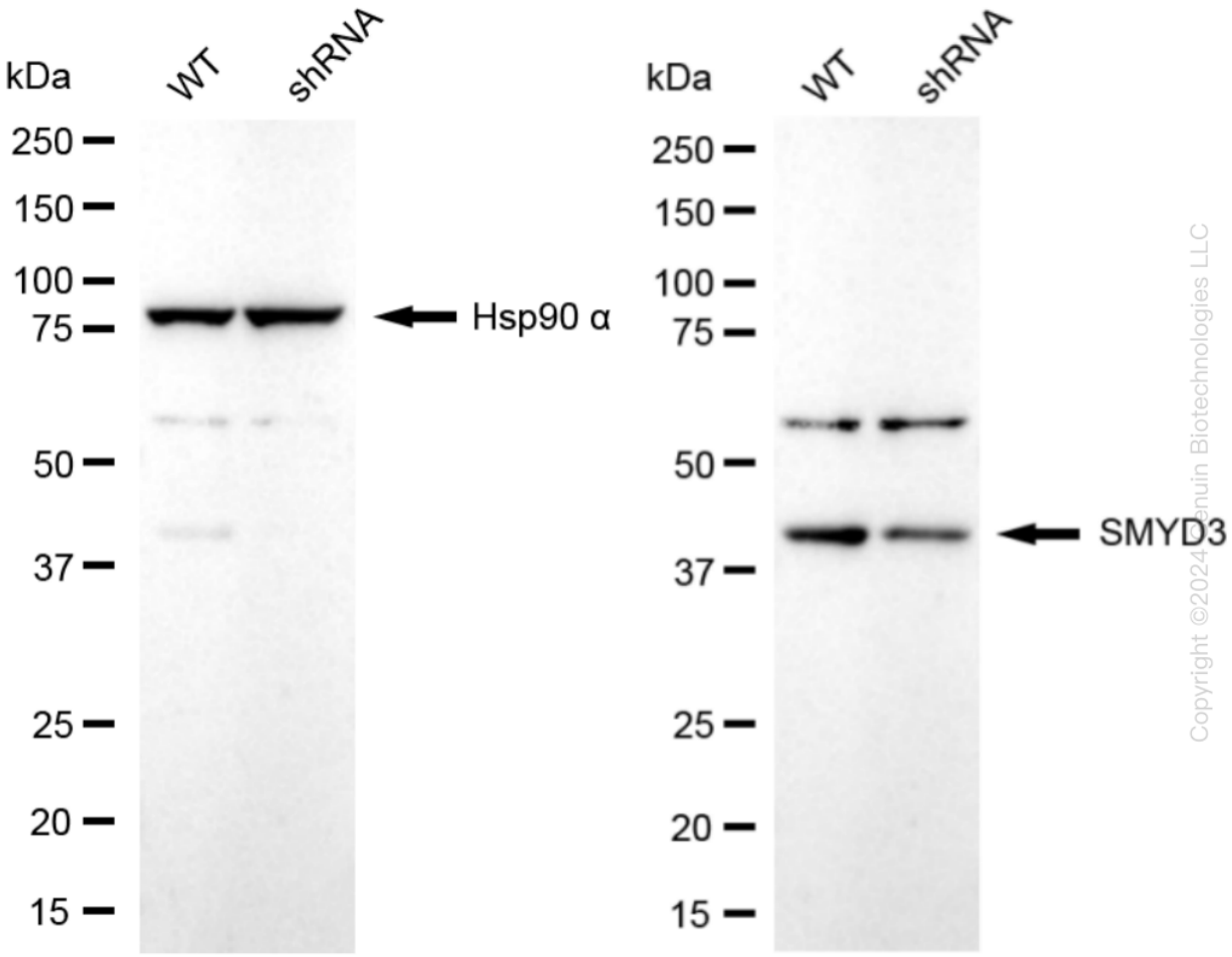
Validation Data

Human SMYD3 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	24.34
Knock-Down	25.51
ΔCt (Ct_{KD}-Ct_{WT})	1.17
% mRNA Reduction	⬇ 56%

RT-qPCR analysis. HeLa cells were infected with SMYD3-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. SMYD3 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 SMYD3 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.