Human NUDT1 Knockdown Cell Line (WB-Validated)

Catalog #: C61684

Aliases

NUDT1; Nudix Hydrolase 1; 7,8-Dihydro-8-Oxoguanine Triphosphatase; Nudix Motif 1; 8-Oxo-DGTPase; MTH1; Nudix (Nucleoside Diphosphate Linked Moiety X)-Type Motif 1; Nucleoside Diphosphate-Linked Moiety X-Type Motif 1; Methylated Purine Nucleoside Triphosphate Hydrolase; Oxidized Purine Nucleoside Triphosphate Hydrolase; 8-Oxo-7,8-Dihydrodeoxyguanosine Triphosphatase; Nucleoside Diphosphate-Linked Moiety X Motif 1; 8-Oxo-7,8-Dihydroguanosine Triphosphatase; 2-Hydroxy-DATP Diphosphatase; MutT Human Homolog 1; EC 3.6.1.56; EC 3.6.1.-

Background

Gene Name: NUDT1
NCBI Gene Entry: 4521

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human NUDT1 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.

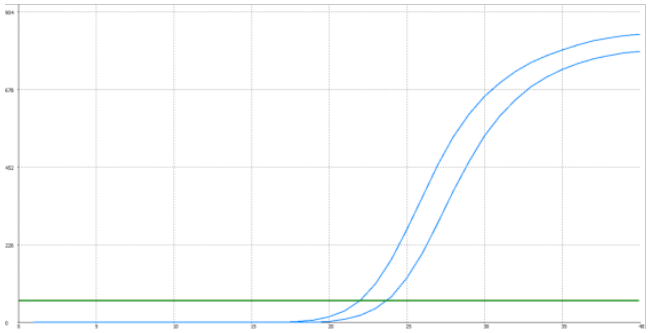
Instructions For Use

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

Note: This product is for research use only.

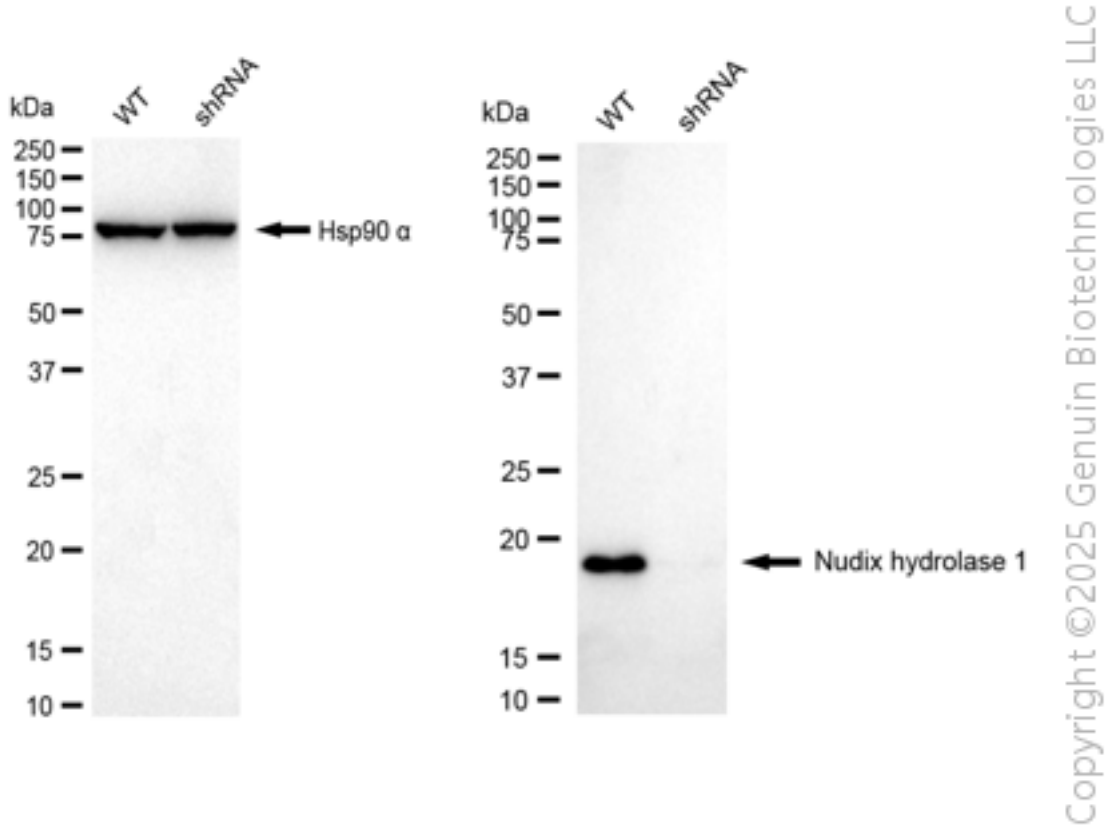
Validation Data

Human NUDT1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	21.85
Knock-Down	23.44
ΔCt (CtKD-CtWT)	1.59
% mRNA Reduction	67%

RT-qPCR analysis. HeLa cells were infected with NUDT1-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. NUDT1 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 NUDT1 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.