Human USP13 Knockdown Cell Line (WB-Validated)

Catalog #: C61725

Aliases

USP13; Ubiquitin Specific Peptidase 13; Ubiquitin Specific Protease 13 (Isopeptidase T-3); Ubiquitin-Specific-Processing Protease 13; Ubiquitin Carboxyl-Terminal Hydrolase 13; Deubiquitinating Enzyme 13; Ubiquitin Thioesterase 13; Isopeptidase T-3; IsoT-3; ISOT-3; ISOT3; Ubiquitin Specific Peptidase 13 (Isopeptidase T-3); Ubiquitin Thiolesterase 13; EC 3.4.19.12; EC 3.1.2.15

Background

Gene Name: USP13
NCBI Gene Entry: 8975

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human USP13 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.

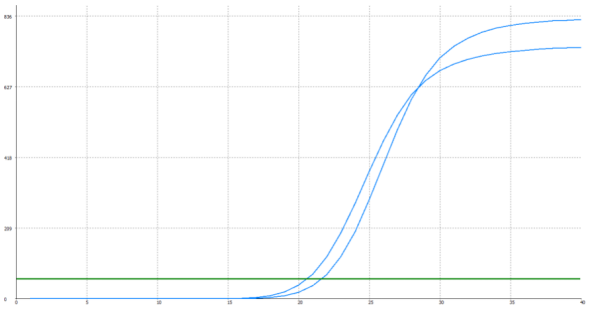
Instructions For Use

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

Note: This product is for research use only.

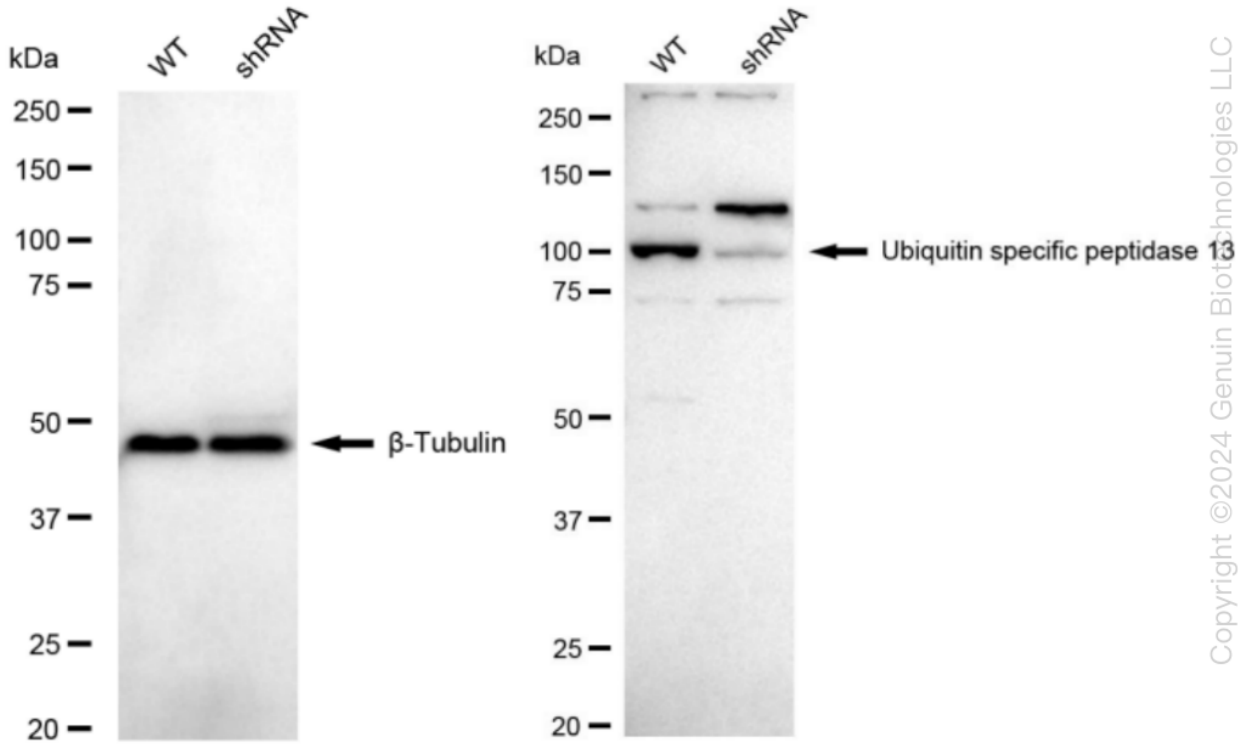
Validation Data

Human USP13 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.39
Knock-Down	21.60
ΔCt (Ct_{KD}-Ct_{WT})	1.21
% mRNA Reduction	⬇ 57%

RT-qPCR analysis. HeLa cells were infected with USP13-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. USP13 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#61725, 1:5,000) against USP13 and β-Tubulin, 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).