Human USP5 Knockdown Cell Line (WB-Validated)

Catalog #: C62732

Aliases

USP5; Ubiquitin Specific Peptidase 5; Isopeptidase T; IsoT; Ubiquitin-Specific-Processing Protease 5; Ubiquitin Carboxyl-Terminal Hydrolase 5; Deubiquitinating Enzyme 5; Ubiquitin Thioesterase 5; Ubiquitin-Specific Protease-5 (Ubiquitin Isopeptidase T); Ubiquitin Specific Peptidase 5 (Isopeptidase T); Ubiquitin Specific Protease 5 (Isopeptidase T); Testicular Tissue Protein Li 218; Ubiquitin Thiolesterase 5; Ubiquitin Isopeptidase T; EC 3.4.19.12; EC 3.1.2.15; ISOT

Background

Gene Name: USP5
NCBI Gene Entry: 8078

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human USP5 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.

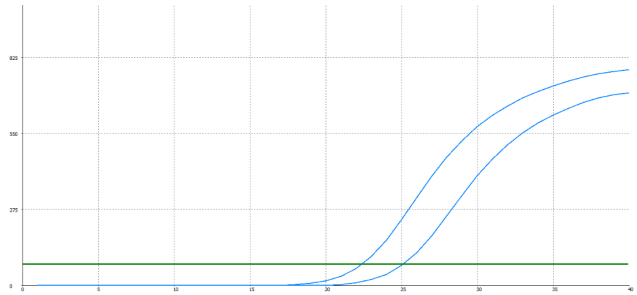
Instructions For Use

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

Note: This product is for research use only.

Validation Data

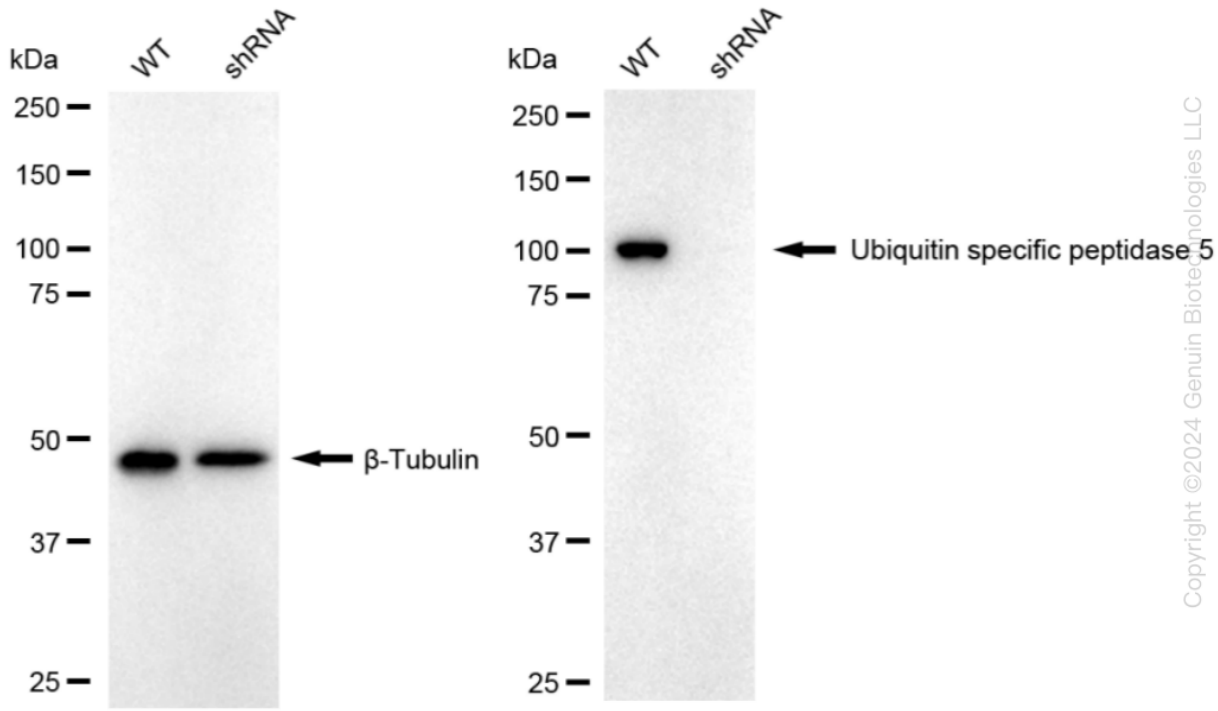
Human USP5 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	21.79
Knock-Down	24.28
ΔCt (Ct_{KD}-Ct_{WT})	2.49
% mRNA Reduction	⬇ 82%

Copyright ©2024 Genuin Biotechnologies LLC

RT-qPCR analysis. HeLa cells were infected with USP5-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. USP5 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 against USP5 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.