Human HSPA5 Knockdown Cell Line (WB-Validated)

Catalog #: C61474

Aliases

HSPA5; Heat Shock Protein Family A (Hsp70) Member 5; GRP78; Heat Shock 70kDa Protein 5 (Glucose-Regulated Protein, 78kDa); Immunoglobulin Heavy Chain-Binding Protein; Heat Shock Protein 70 Family Protein 5; Heat Shock Protein Family A Member 5; Endoplasmic Reticulum Chaperone BiP; Glucose-Regulated Protein, 78kDa; 78 KDa Glucose-Regulated Protein; Binding-Immunoglobulin Protein; HSP70 Family Protein 5; BiP; BIP; Heat Shock 70kD Protein 5 (Glucose-Regulated Protein, 78kD); Endoplasmic Reticulum Lumenal Ca(2+)-Binding Protein Grp78; Epididymis Secretory Sperm Binding Protein Li 89n; EC 3.6.4.10; HEL-S-89n; GRP-78

Background

Gene Name: HSPA5
NCBI Gene Entry: 3309

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human HSPA5 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.

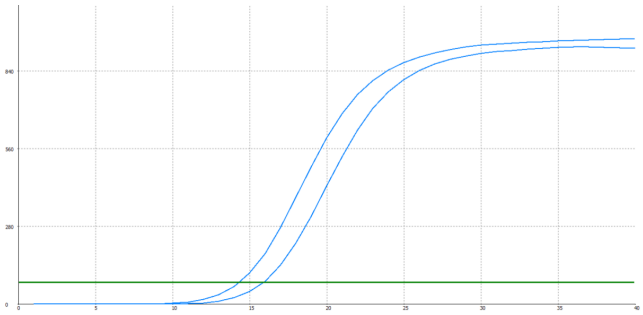
Instructions For Use

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 HSPA5 Knockdown Cell Line (WB-Validated)

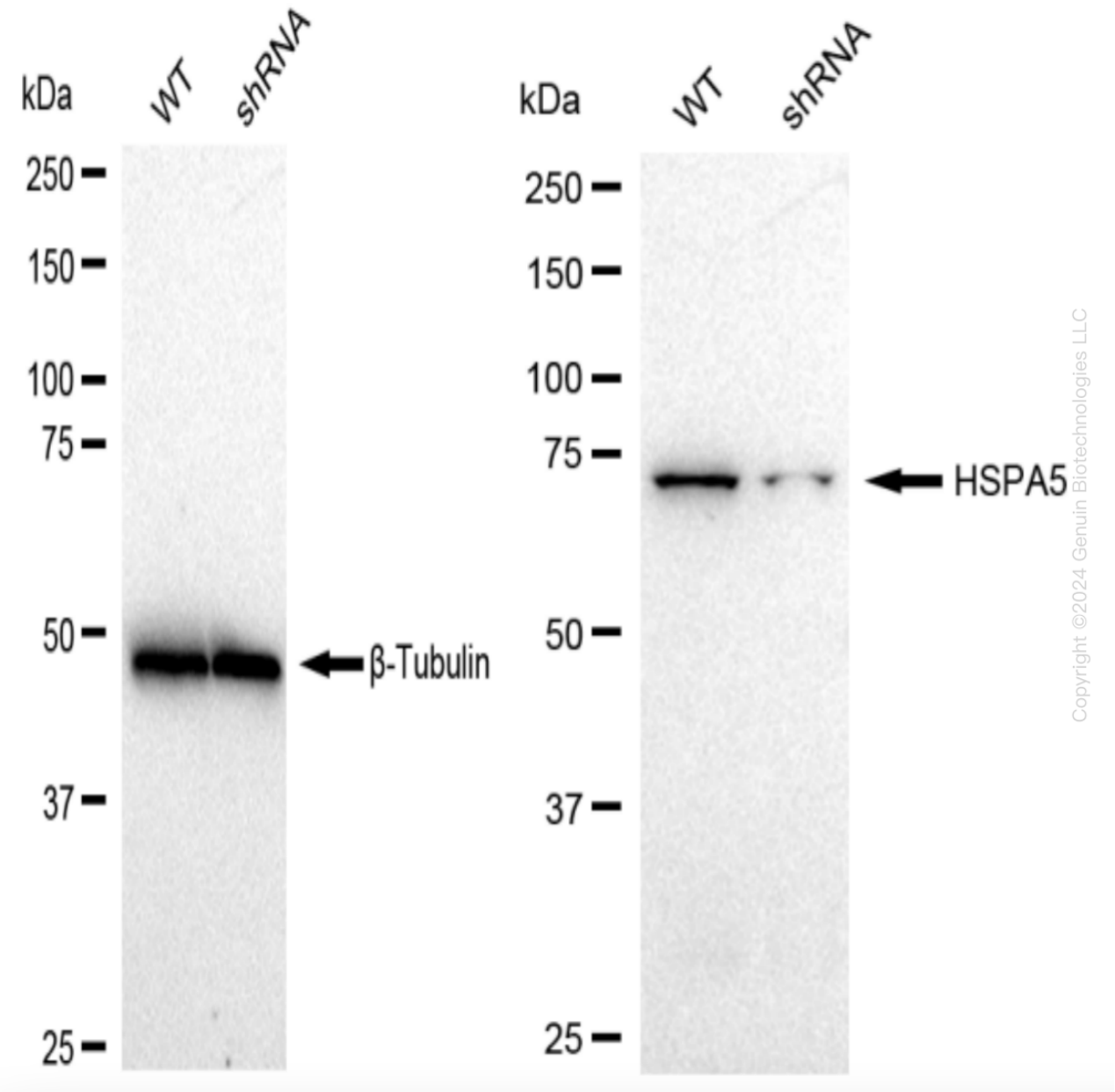


Genotype	Ct Value
Wild-Type	14.1
Knock-Down	15.55
ΔCt (Ct_{KD}-Ct_{WT})	1.45
% mRNA Reduction	⬇ 63%

Copyright ©2024 Genuin Biotechnologies LLC

RT-qPCR analysis. 293T cells were infected with HSPA5-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%.

Human HSPA5 Knockdown Cell Line (WB-Validated)



Western blotting analysis. HSPA5 protein expression in wild-type (WT) and shRNA knockdown (KD) 293T cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies against HSPA5 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.