Human PSME1 Knockdown Cell Line (WB-Validated)

Catalog #: C62582

Aliases

PSME1; Proteasome Activator Subunit 1; PA28alpha; IFI5111; Proteasome (Prosome, Macropain) Activator Subunit 1 (PA28 Alpha); Activator Of Multicatalytic Protease Subunit 1; Interferon Gamma Up-Regulated I-5111 Protein; Proteasome Activator Complex Subunit 1; 11S Regulator Complex Subunit Alpha; IGUP I-5111; Epididymis Secretory Sperm Binding Protein Li 129m; Interferon-Gamma-Inducible Protein 5111; Proteasome Activator 28 Subunit Alpha; Interferon-Gamma IEF SSP 5111; 29-KD MCP Activator Subunit; HEL-S-129m; REG-Alpha; REGalpha; PA28A; PA28a

Background

Gene Name: PSME1
NCBI Gene Entry: 5720

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PSME1 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.
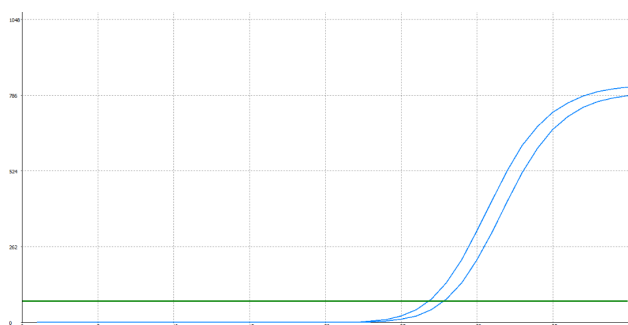
Validation Data

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Human PSME1 Knockdown Cell Line (WB-Validated)

Genotype	Ct Value
Wild-Type	26.39
Knock-Down	27.31
ΔCt (Ct$_{KD}$-Ct$_{WT}$)	0.92
% mRNA Reduction	⬇ 47%

RT-qPCR analysis. HeLa cells were infected with PSME1-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%.
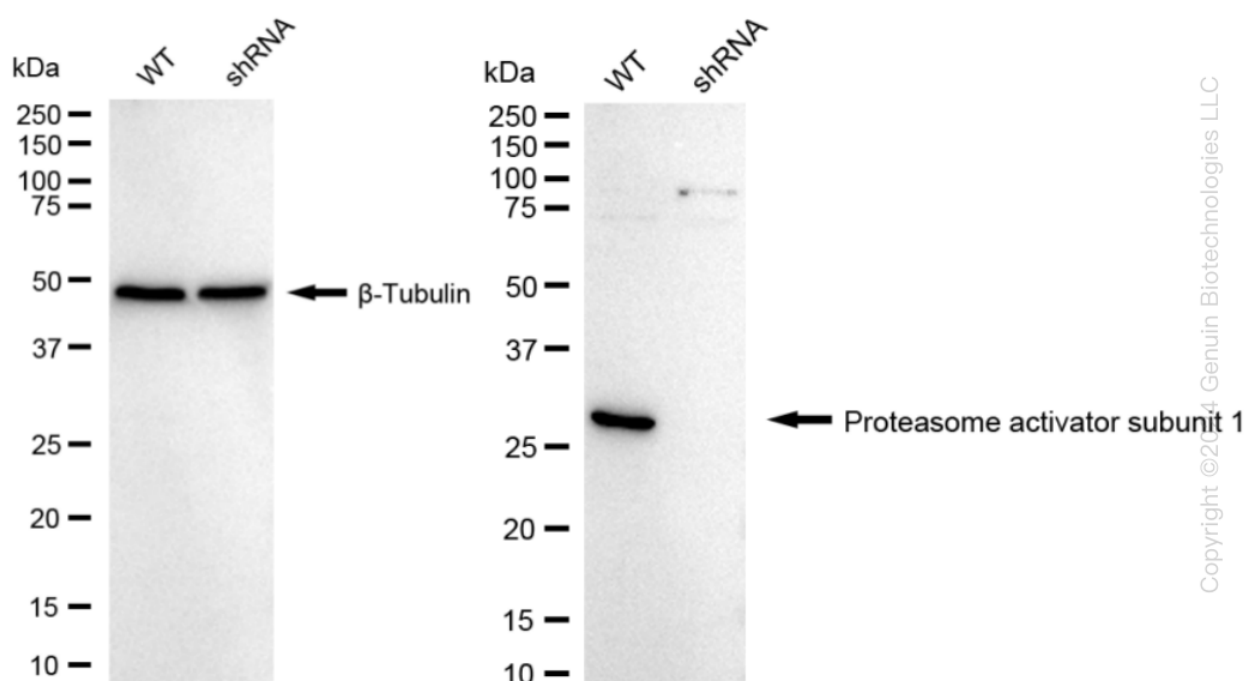
Western blotting analysis. PSME1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies against PSME1 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.