Human PSMA6 Knockdown Cell Line (WB-Validated)

Catalog #: C64853

Aliases

PSMA6; Proteasome 20S Subunit Alpha 6; PROS27; P27K; IOTA; Proteasome (Prosome, Macropain) Subunit, Alpha Type, 6; Multicatalytic Endopeptidase Complex Iota Chain; Proteasome Subunit Alpha Type-6; Proteasome Subunit Alpha 6; 27 KDa Prosomal Protein; Proteasome Iota Chain; Macropain Iota Chain; MGC22756; MGC23846; MGC2333; PROS-27; Testicular Secretory Protein Li 44; Proteasome Subunit Alpha1; Proteasome Subunit Iota; Macropain Subunit Iota; Proteasome Subunit A1; Prosomal P27K Protein; EC 3.4.25.1; Proteasome Subunit Alpha-1; Alpha-1

Background

Gene Name: PSMA6
NCBI Gene Entry: 5687

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PSMA6 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.

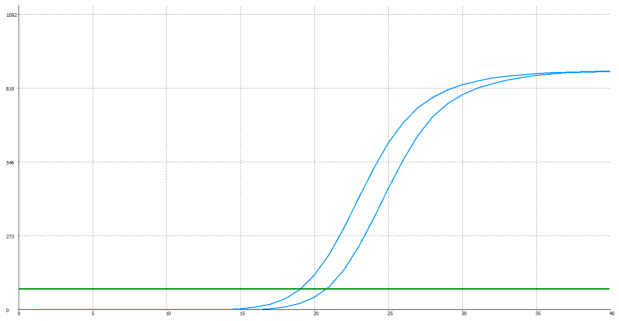
Instructions For Use

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

Note: This product is for research use only.

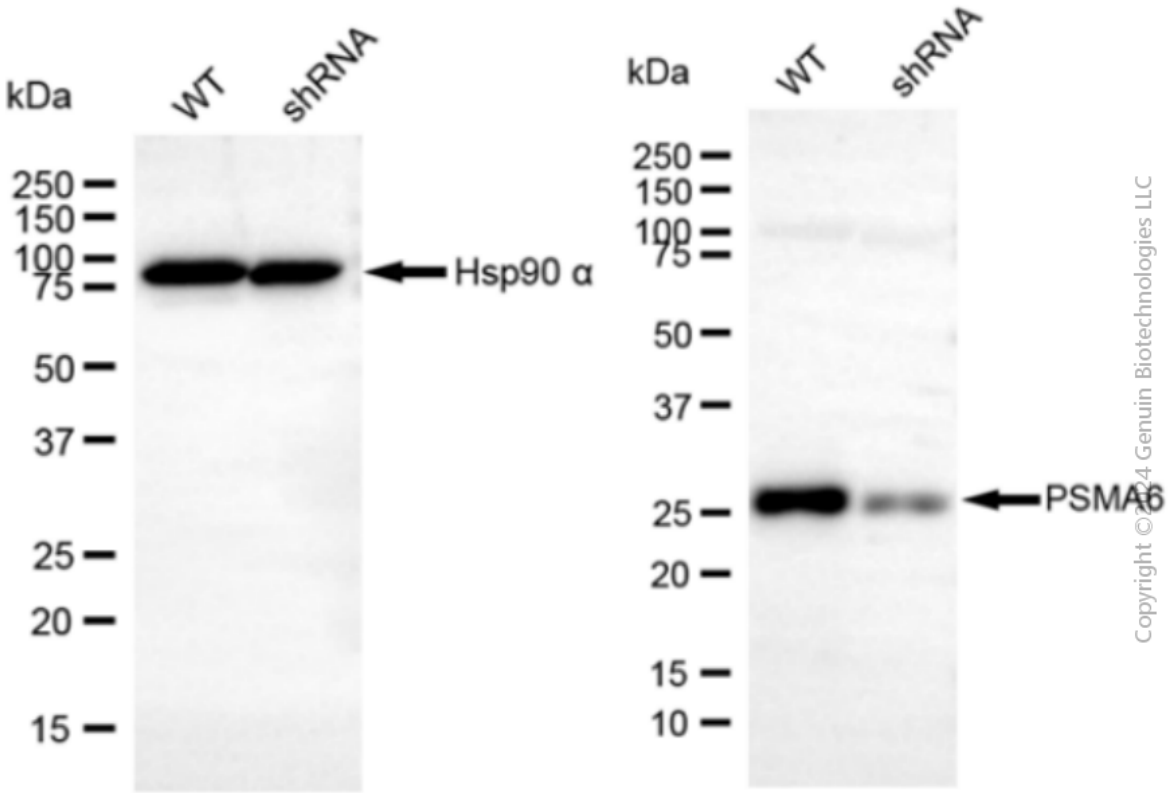
Validation Data

Human PSMA6 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	28.68
Knock-Down	20.41
$\Delta Ct\ (Ct_{KD}\text{-}Ct_{WT})$	1.73
% mRNA Reduction	⬇ 70%

RT-qPCR analysis. HeLa cells were infected with PSMA6-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. PSMA6 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 PSMA6 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.