Human PRMT5 Knockdown Cell Line (WB-Validated)

Catalog #: C62439

Aliases

PRMT5; Protein Arginine Methyltransferase 5; SKB1Hs; HRMT1L5; SKB1; Histone-Arginine N-Methyltransferase PRMT5; Protein Arginine N-Methyltransferase 5; Shk1 Kinase-Binding Protein 1 Homolog; 72 KDa ICln-Binding Protein; Jak-Binding Protein 1; SKB1 Homolog; IBP72; JBP1; HMT1 HnRNP Methyltransferase-Like 5; Skb1 (S. Pombe) Homolog; SKB1 Homolog (S. Pombe); EC 2.1.1.320; HSL7

Background

Gene Name: PRMT5
NCBI Gene Entry: 10419

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PRMT5 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.

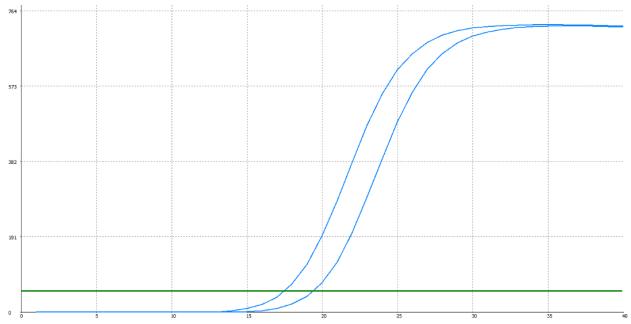
Instructions For Use

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

Note: This product is for research use only.

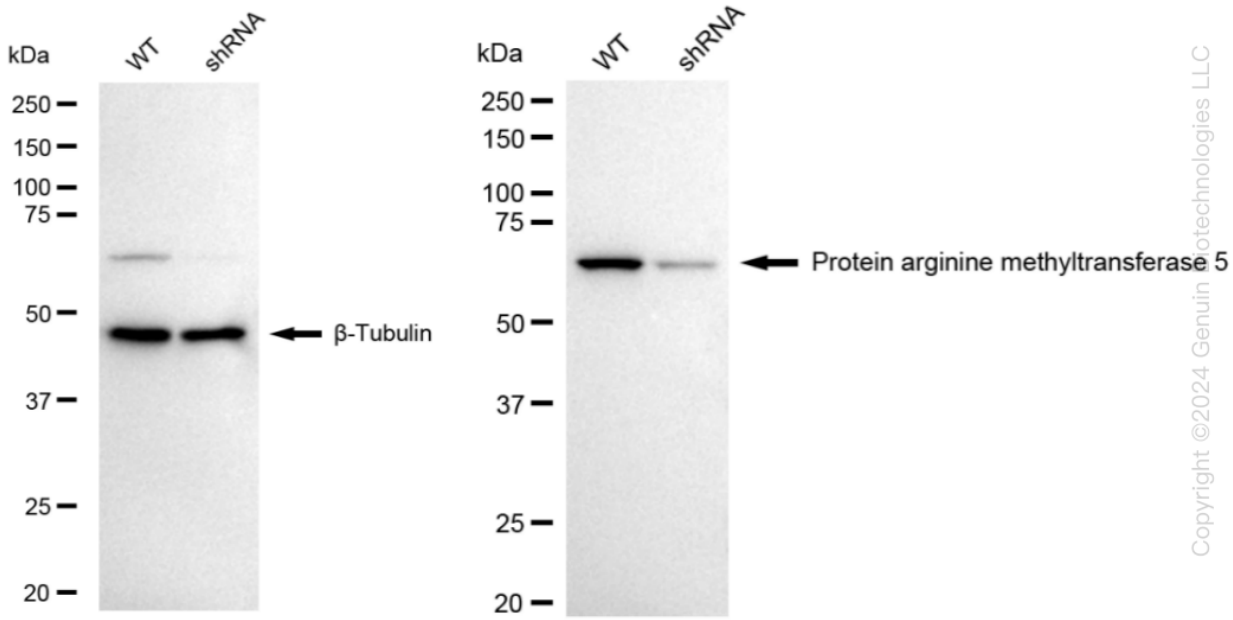
Validation Data

Human PRMT5 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	17.42
Knock-Down	19.32
ΔCt (Ct_{KD}-Ct_{WT})	1.90
% mRNA Reduction	⬇ 73%

RT-qPCR analysis. HeLa cells were infected with PRMT5-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. PRMT5 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 PRMT5 and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.