Human BMI1 Knockdown Cell Line (WB-Validated)

Catalog #: C1531

Aliases

BMI1; BMI1 Proto-Oncogene, Polycomb Ring Finger; RNF51; PCGF4; Polycomb Group RING Finger Protein 4; Polycomb Complex Protein BMI-1; B Lymphoma Mo-MLV Insertion Region 1 Homolog (Mouse); Murine Leukemia Viral (Bmi-1) Oncogene Homolog; B Lymphoma Mo-MLV Insertion Region 1 Homolog; BMI1 Polycomb Ring Finger Proto-Oncogene; BMI1 Polycomb Ring Finger Oncogene; Polycomb Group Ring Finger 4; Polycomb Group Protein Bmi1; Ring Finger Protein 51; RING Finger Protein 51; Flvi-2/Bmi-1; FLVI2/BMI1

Background

Gene Name: BMI1
NCBI Gene Entry: 648

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human BMI1 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.

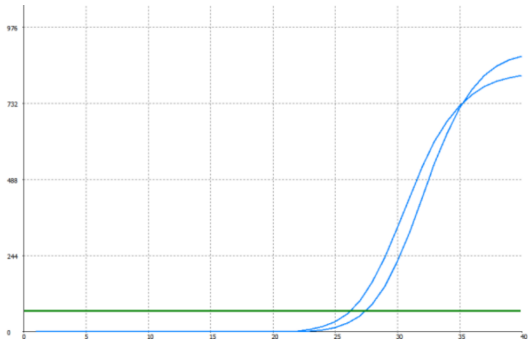
Instructions For Use

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 BMI1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	26.01
Knock-Down	27.32
ΔCt (Ct_{KD}-Ct_{WT})	1.31
% mRNA Reduction	⬇ 60%

RT-qPCR analysis. HeLa cells were infected with BMI1-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%.

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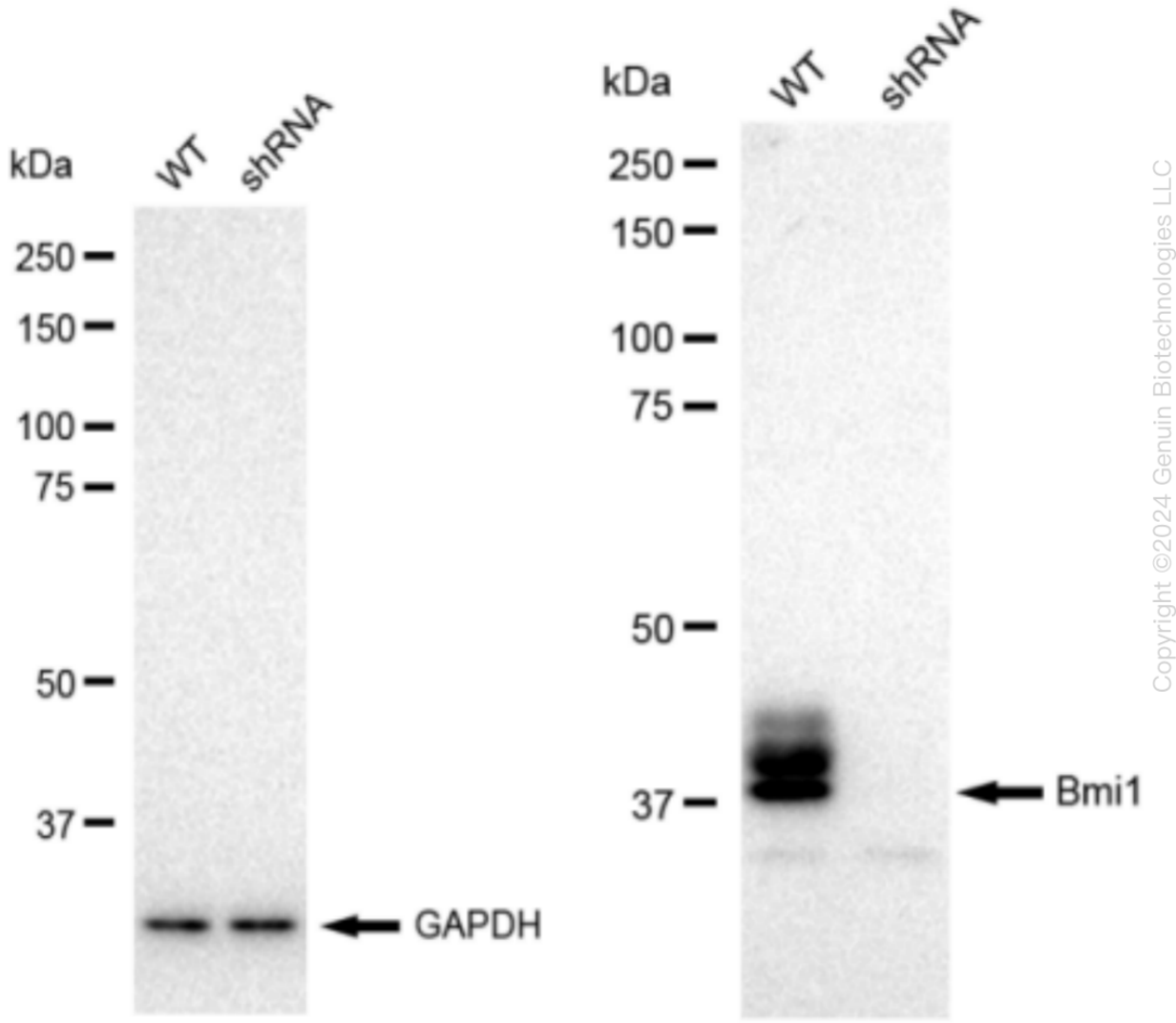

Western blotting analysis. BMI1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. GAPDH served as a loading control. The blots were incubated with primary antibodies (Cat#69531, 1:5,000) against BMI1 and GAPDH, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).