

Human PIWIL1 Knockdown Cell Line (WB-Validated)



Catalog #: C62591

Aliases

Piwi Like RNA-Mediated Gene Silencing 1; HIWI; CT80.1; PIWI; Piwi-Like Protein 1; Piwi (Drosophila)-Like 1; Piwi-Like 1 (Drosophila); Piwi Homolog; EC 3.1.26.-; MIWI

Background

Gene Name: PIWIL1

NCBI Gene Entry: [9271](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PIWIL1 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

SUPPORT

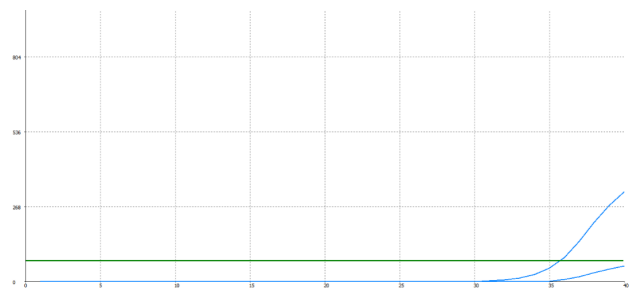
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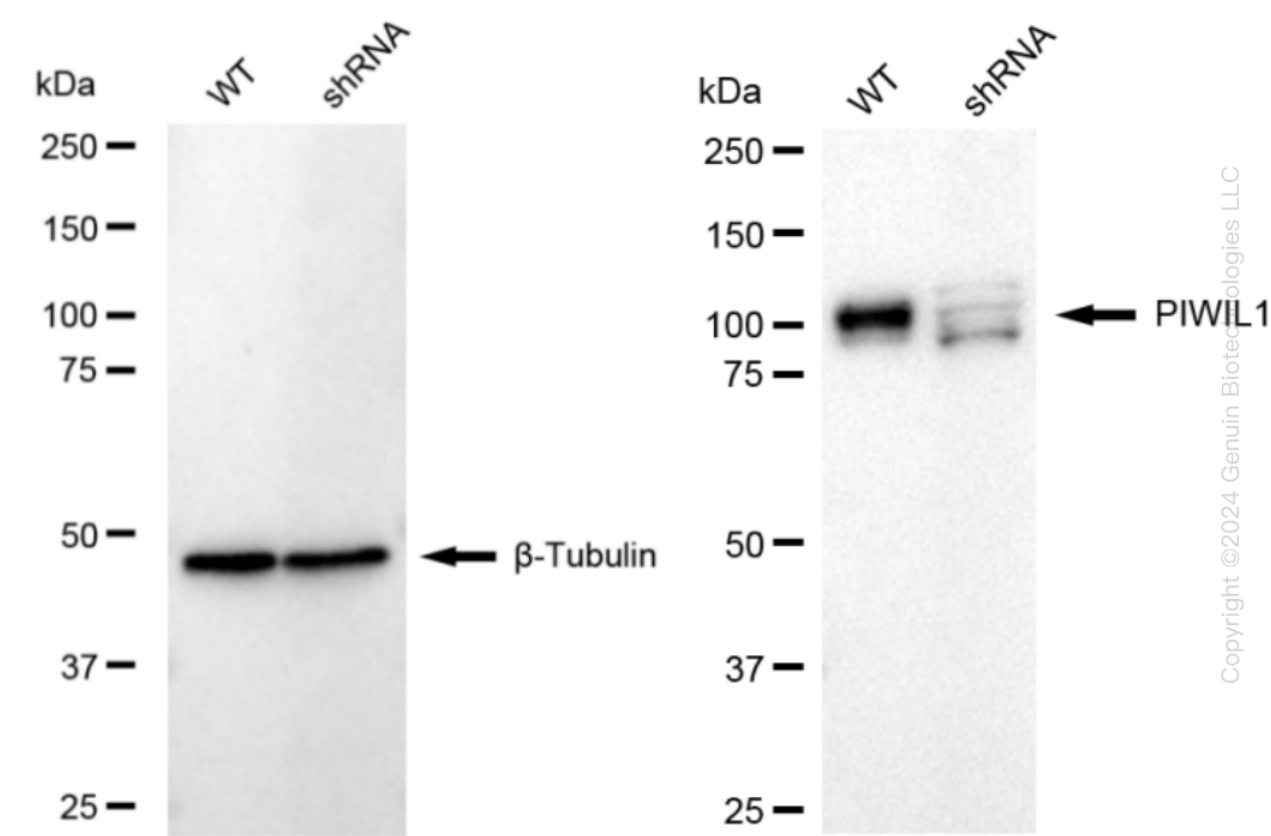
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Genotype	Ct Value
Wild-Type	33.70
Knock-Down	36.16
Δ Ct (Ct _{KD} -Ct _{WT})	2.46
% mRNA Reduction	↓ 82%

RT-qPCR analysis. HeLa cells were infected with PIWIL1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. Δ Ct (Ct_{KD}-Ct_{WT}) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1-1/2^{\Delta$ Ct) x 100%.



Western blotting analysis. PIWIL1 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 PIWIL1 and β -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.

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