

# Human PWP1 Knockdown Cell Line (WB-Validated)



**Catalog #: C61509**

## Aliases

PWP1; PWP1 Homolog, Endonuclein; IEF-SSP-9502; Periodic Tryptophan Protein 1 Homolog; KeRatinocyte Protein IEF SSP 9502; Endonuclein; Nuclear Phosphoprotein Similar To S. Cerevisiae PWP1; PWP1 Homolog (S. Cerevisiae); NCLB

## Background

Gene Name: PWP1

NCBI Gene Entry: [11137](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human PWP1 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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### SUPPORT

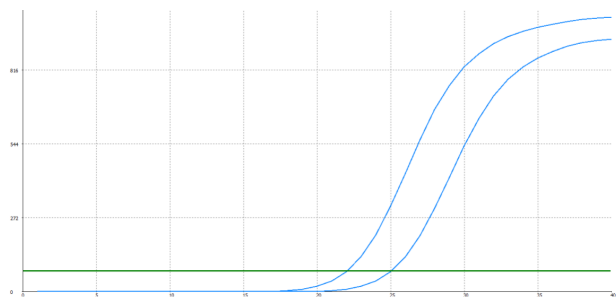
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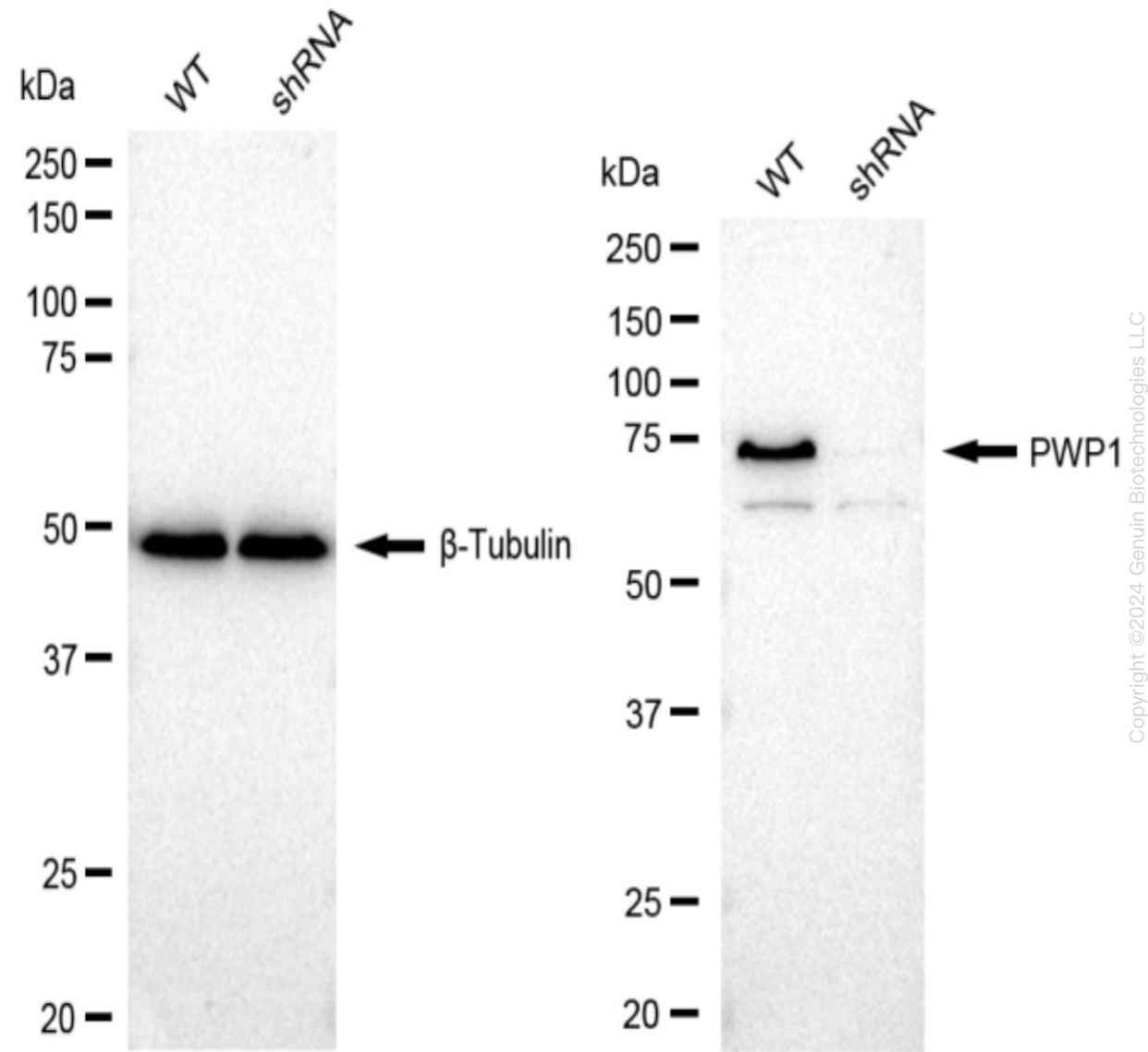
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Genotype	Ct Value
Wild-Type	21.95
Knock-Down	24.79
$\Delta Ct (Ct_{KD}-Ct_{WT})$	2.84
% mRNA Reduction	↓ 86%

RT-qPCR analysis. HeLa cells were infected with PWP1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta Ct (Ct_{KD}-Ct_{WT})$  was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula:  $(1-1/2^{\Delta Ct}) \times 100\%$ .



Western blotting analysis. PWP1 protein expression in wild-type (WT) and shRNA knockdown

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(KD) HeLa cells was detected using Western blotting.  $\beta$ -Tubulin served as a loading control. The blots were incubated with primary antibodies against PWP1 and  $\beta$ -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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