Human PPID Knockdown Cell Line (WB-Validated)

Catalog #: C62594

Aliases

Peptidylprolyl Isomerase D; CYP-40; CypD; Peptidyl-Prolyl Cis-Trans Isomerase D; Cyclophilin-Related Protein; Cyclophilin 40; Rotamase D; EC 5.2.1.8; PPIase D; 40 KDa Peptidyl-Prolyl Cis-Trans Isomerase D; Peptidylprolyl Isomerase D (Cyclophilin D); 40 KDa Peptidyl-Prolyl Cis-Trans Isomerase; Testicular Tissue Protein Li 147; Cyclophilin-40; Cyclophilin D; CYP40; CYPD

Background

Gene Name: PPID
NCBI Gene Entry: 5481

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PPID 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.

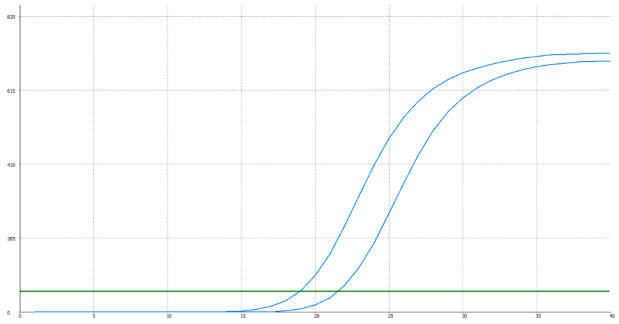
Instructions For Use

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

Note: This product is for research use only.

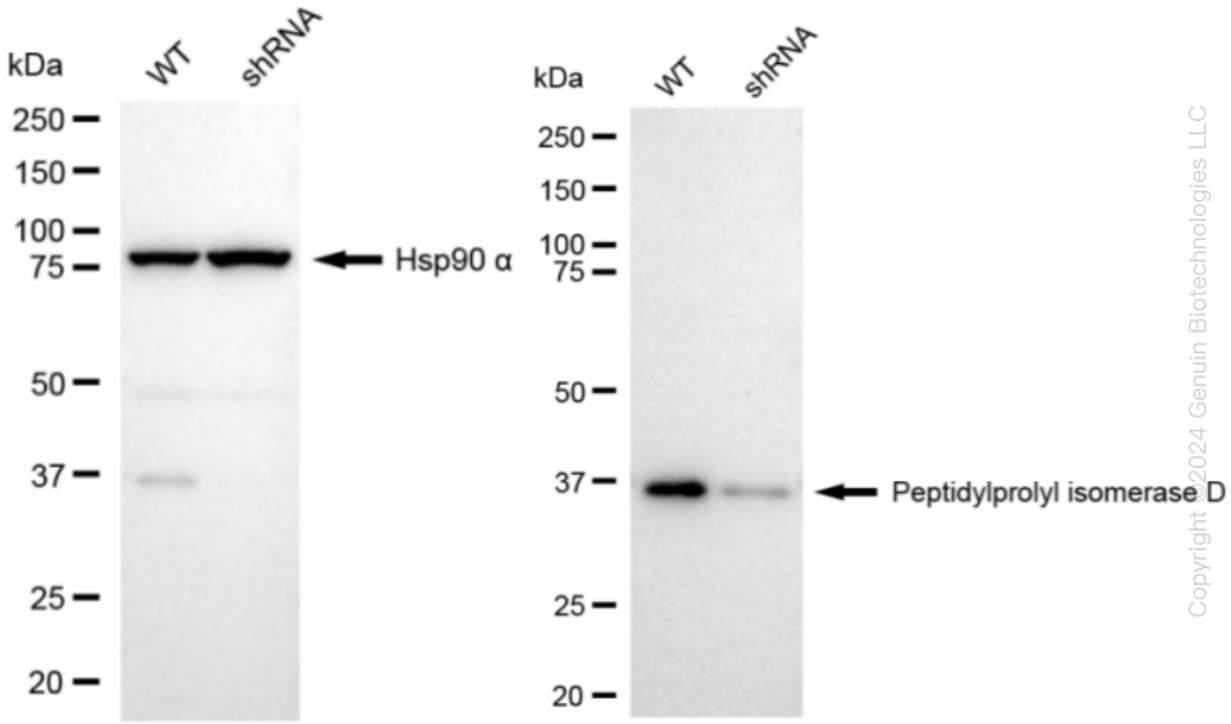
Validation Data

Human PPID Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	18.74
Knock-Down	21.28
ΔCt (Ct_{KD}-Ct_{WT})	2.54
% mRNA Reduction	⬇ 83%

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