

Human PEPD Knockdown Cell Line (WB-Validated)



Catalog #: C61496

Aliases

PEPD; Peptidase D; Xaa-Pro Dipeptidase; Imidodipeptidase; Proline Dipeptidase; X-Pro Dipeptidase; Prolidase; Testicular Tissue Protein Li 138; Aminoacyl-L-Proline Hydrolase; EC 3.4.13.9; PROLIDASE; PRD

Background

Gene Name: PEPD

NCBI Gene Entry: [5184](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PEPD 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

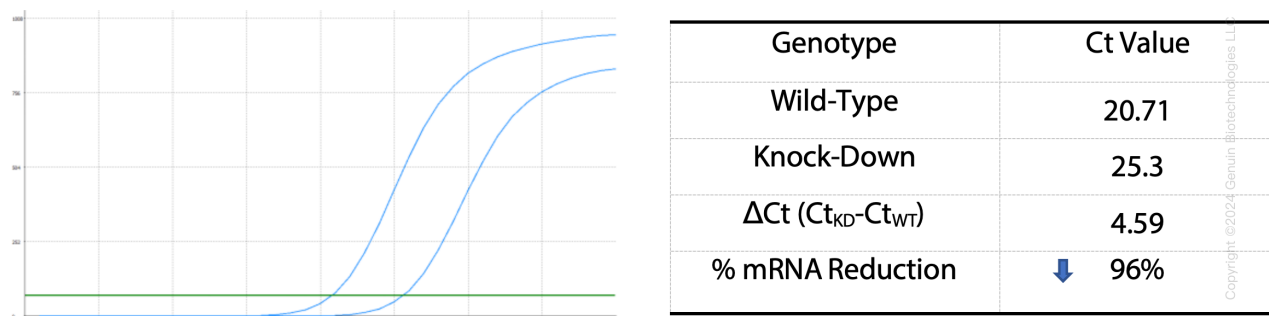
SUPPORT

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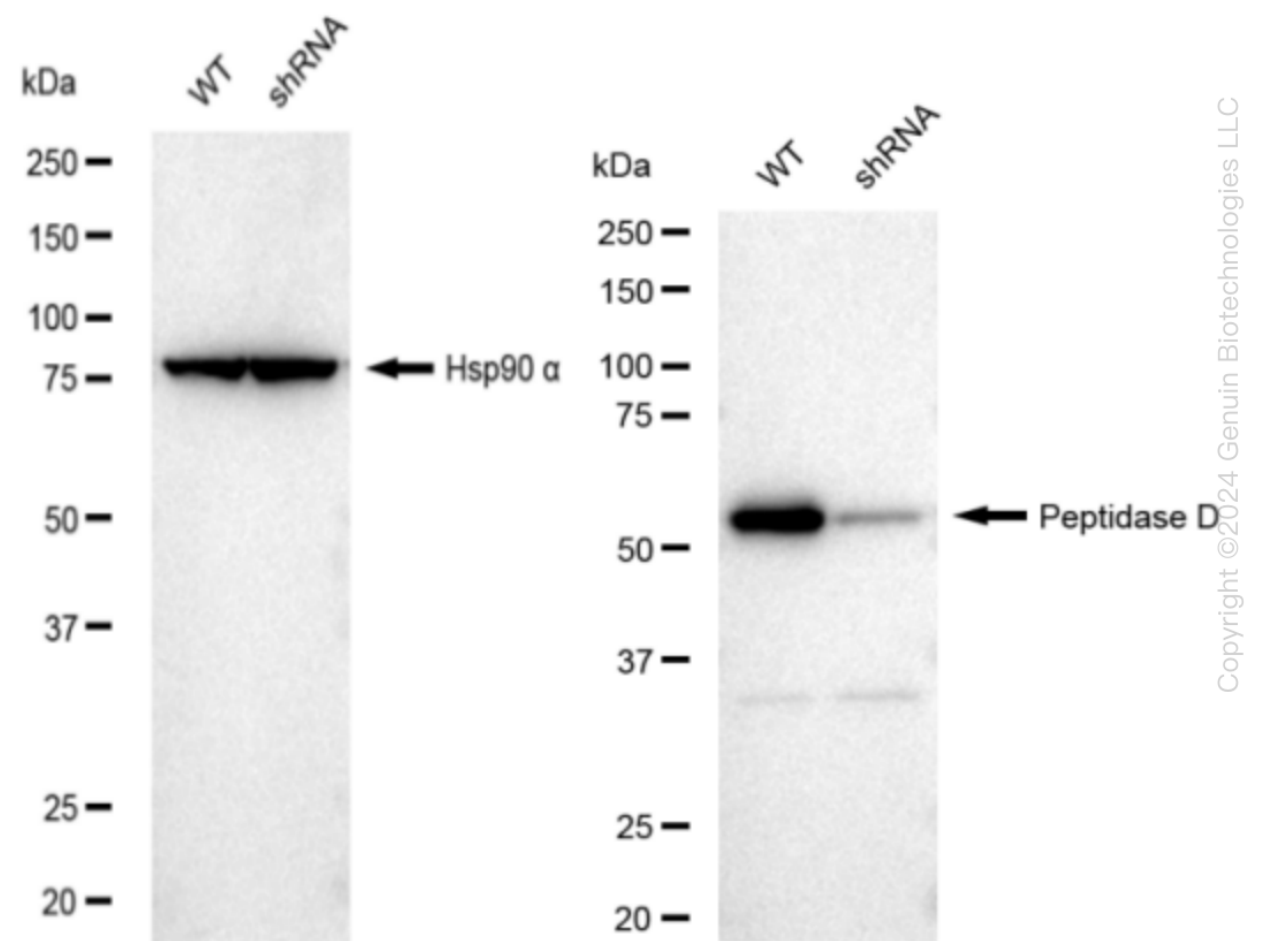
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RT-qPCR analysis. HeLa cells were infected with PEPD-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. $\Delta Ct (Ct_{KD}-Ct_{WT})$ was used to calculate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



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

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(KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies (Cat#61496, 1:5,000) against PEPD and Hsp90 α , 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).

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