

Human PHGDH Knockdown Cell Line (WB-Validated)



Catalog #: C65056

Aliases

PHGDH; Phosphoglycerate Dehydrogenase; D-3-Phosphoglycerate Dehydrogenase; SERA; PGDH; PDG; 2-Oxoglutarate Reductase; Malate Dehydrogenase; EC 1.1.1.95; 3-PGDH; Epididymis Secretory Protein Li 113; 3-Phosphoglycerate Dehydrogenase; EC 1.1.1.399; EC 1.1.1.37; HEL-S-113; EC 1.1.1; PHGDHD; 3PGDH; PGDH3; NLS1; PGAD; NLS; PGD

Background

Gene Name: PHGDH

NCBI Gene Entry: [26227](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human PHGDH 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

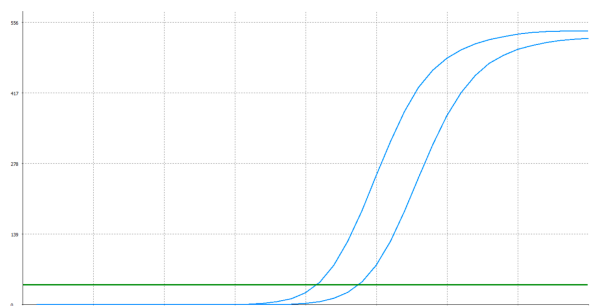
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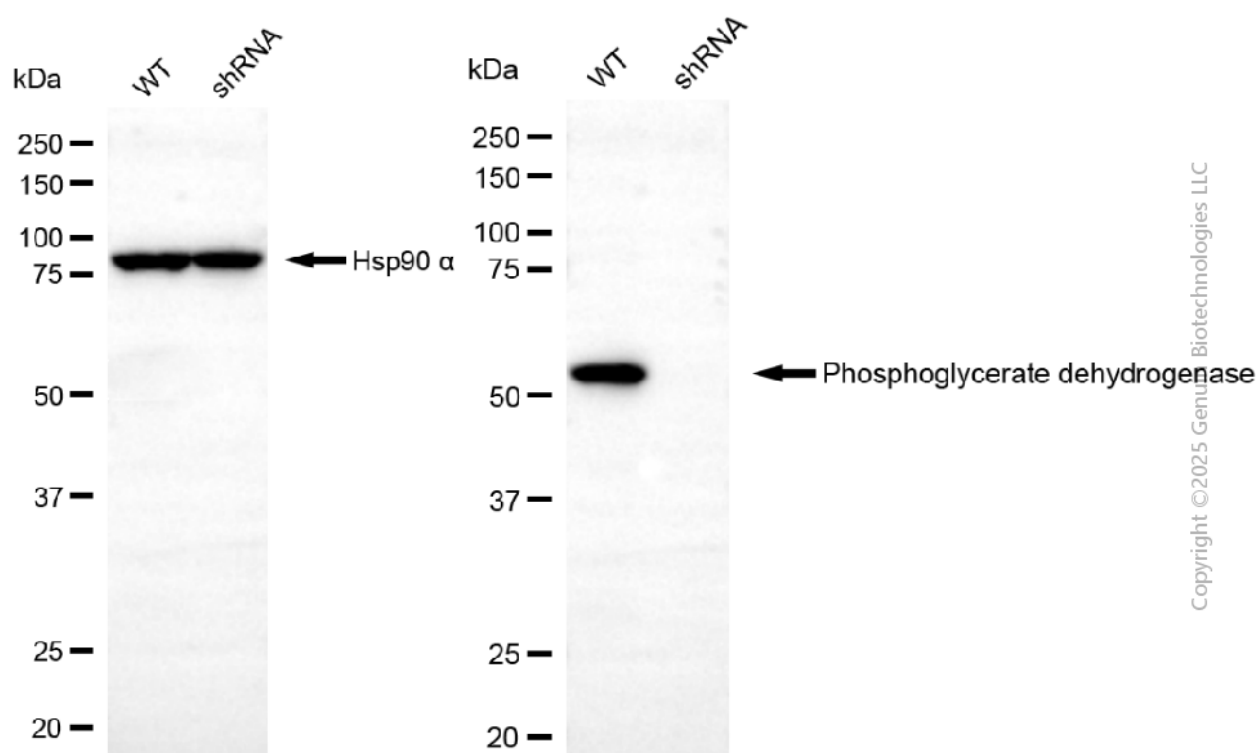
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Genotype	Ct Value
Wild-Type	20.70
Knock-Down	23.62
$\Delta Ct (Ct_{KD} - Ct_{WT})$	2.92
% mRNA Reduction	↓ 87%

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RT-qPCR analysis. HeLa cells were infected with PHGDH-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: $(1 - 1/2^{\Delta Ct}) \times 100\%$.



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Western blotting analysis. PHGDH 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 PHGDH and Hsp90 α , respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.