Human GPI Knockdown Cell Line (WB-Validated)

Catalog #: C62019

Aliases

GPI; Glucose-6-Phosphate Isomerase; AMF; NLK; Autocrine Motility Factor; Phosphoglucose Isomerase; Phosphohexose Isomerase; Neuroleukin; EC 5.3.1.9; SA-36; PGI; PHI; Hexose Monophosphate Isomerase; Glucose Phosphate Isomerase; Hexosephosphate Isomerase; Phosphosaccharomutase; Phosphohexomutase; Sperm Antigen-36; Sperm Antigen 36; Oxoisomerase; GNPI; SA36

Background

Gene Name: GPI
NCBI Gene Entry: 2821

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human GPI 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.

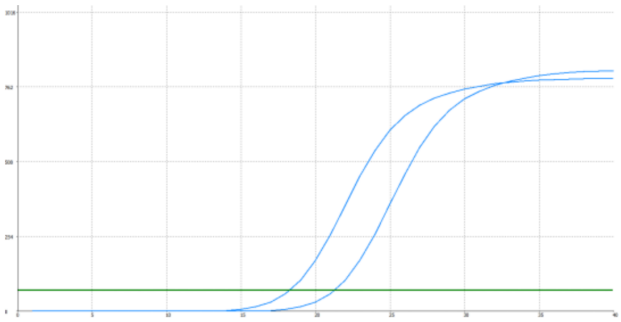
Instructions For Use

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

Note: This product is for research use only.

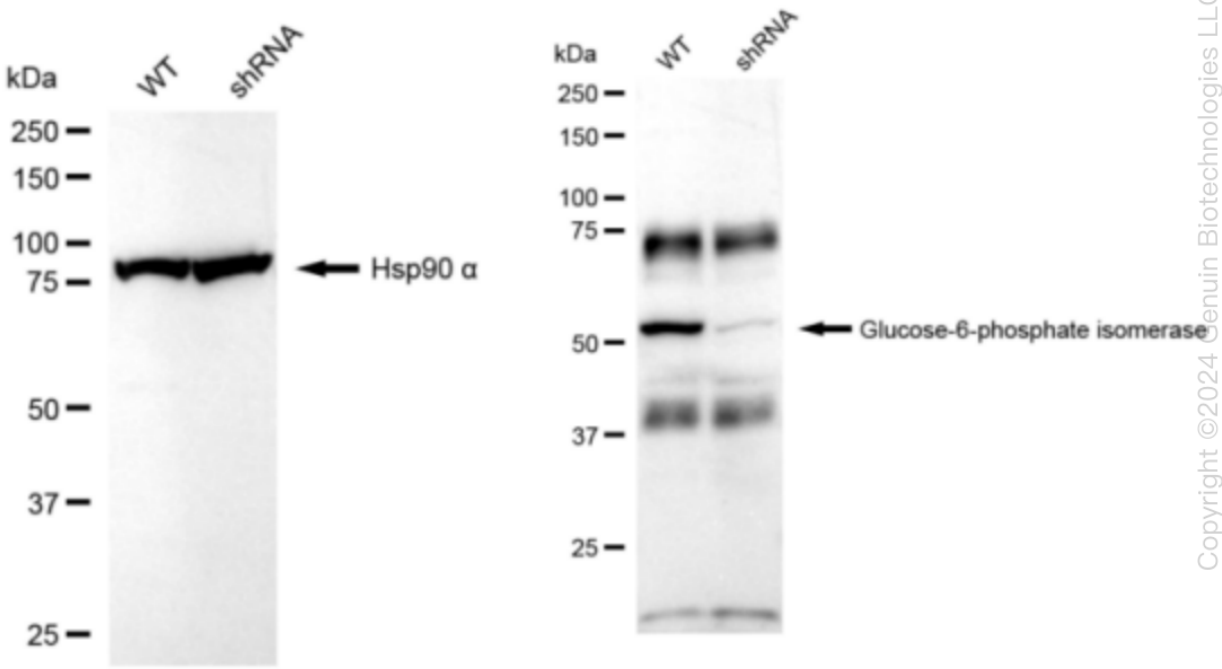
Validation Data

Human GPI Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	17.87
Knock-Down	20.94
ΔCt (Ct_{KD}-Ct_{WT})	3.07
% mRNA Reduction	⬇ 88%

RT-qPCR analysis. HeLa cells were infected with GPI-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. GPI 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 (Cat#62019, 1:5,000) against GPI 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).