Human GALE Knockdown Cell Line (WB-Validated)

Catalog #: C64809

Aliases

GALE; UDP-Galactose-4-Epimerase; UDP-Glucose 4-Epimerase; SDR1E1; Short Chain Dehydrogenase/Reductase Family 1E, Member 1; UDP-N-Acetylgalactosamine 4-Epimerase; UDP-N-Acetylglucosamine 4-Epimerase; Galactose-4-Epimerase, UDP-; UDP-GalNAc 4-Epimerase; UDP-GlcNAc 4-Epimerase; Galactowaldenase; EC 5.1.3.2; Epididymis Secretory Sperm Binding Protein; UDP Galactose-4'-Epimerase; UDP-Galactose 4-Epimerase; EC 5.1.3.7; EC 5.1.3□ □47□ ҂HC13

Background

Gene Name: GALE
NCBI Gene Entry: 2582

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human GALE 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.

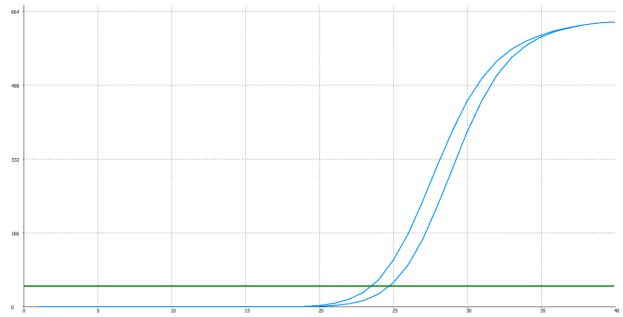
Instructions For Use

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

Note: This product is for research use only.

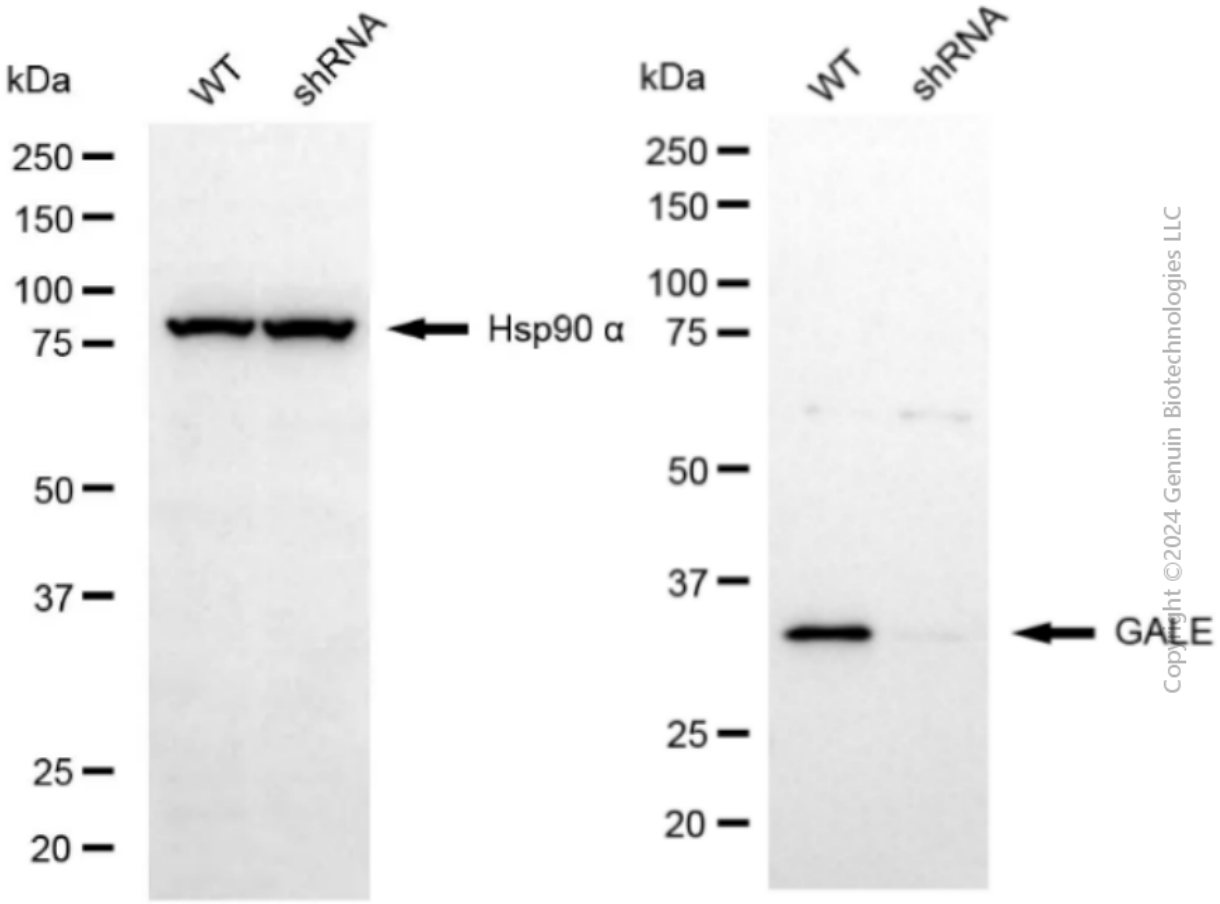
Validation Data

Human GALE Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	19.05
Knock-Down	21.64
$\Delta Ct\ (Ct_{KD}\text{-}Ct_{WT})$	1.31
% mRNA Reduction	⬇ 60%

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