

Human GBE1 Knockdown Cell Line (WB-Validated)



Catalog #: C64802

Aliases

GBE1; 1,4-Alpha-Glucan Branching Enzyme 1; Glucan (1,4-Alpha-), Branching Enzyme 1; 1,4-Alpha-Glucan-Branched Enzyme; Glycogen Branching Enzyme; Brancher Enzyme; EC 2.4.1.18; Amylo-(1,4 To 1,6) Transglucosidase; Amylo-(1,4 To 1,6) Transglycosylase; Glycogen Storage Disease Type IV; Glycogen-Branched Enzyme; Andersen Disease; APBD; GSD4; GBE

Background

Gene Name: GBE1

NCBI Gene Entry: [2632](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human GBE1 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

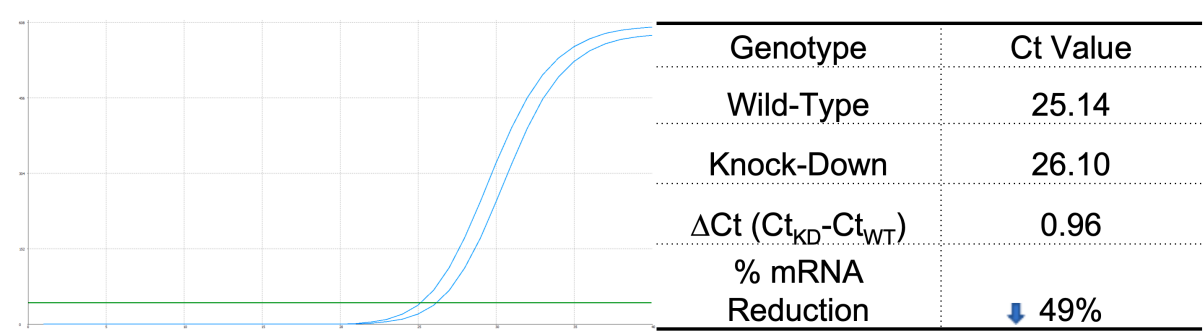
SUPPORT

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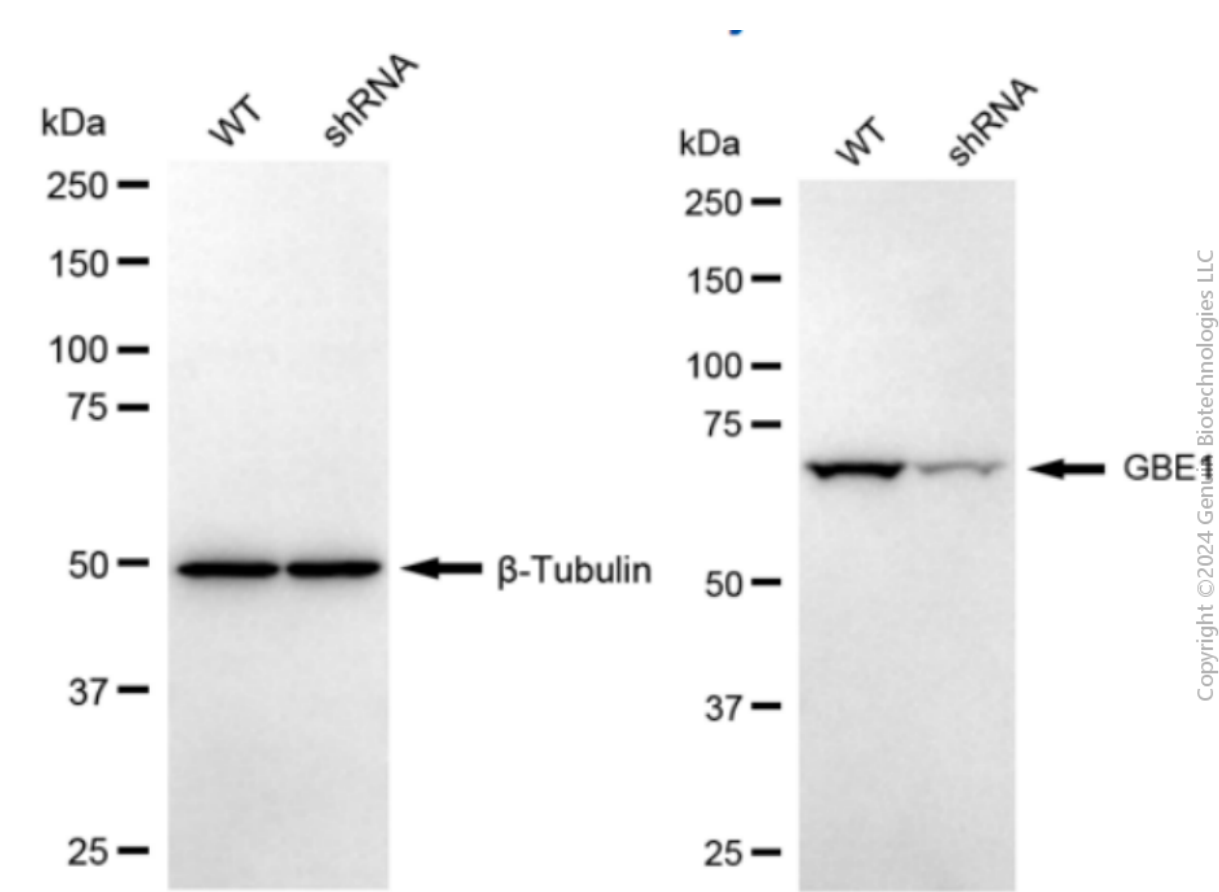
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RT-qPCR analysis. HeLa cells were infected with GBE1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. $\Delta Ct (Ct_{KD} - Ct_{WT})$ was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta Ct}) \times 100\%$.



Western blotting analysis. GBE1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β -Tubulin served as a loading control. The blots were incubated with primary antibodies against GBE1 and β -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.