Human GSK3B Knockdown Cell Line (WB-Validated)

Catalog #: C67743

Aliases

GSK3B; Glycogen Synthase Kinase 3 Beta; Serine/Threonine-Protein Kinase GSK3B; Glycogen Synthase Kinase-3 Beta; EC 2.7.11.26; GSK-3 Beta; EC 2.7.11.1; EC 2.7.11

Background

Gene Name: GSK3B
NCBI Gene Entry: 2932

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human GSK3B 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.

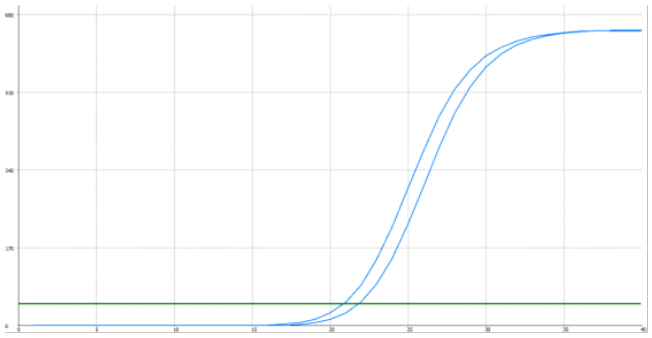
Instructions For Use

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

Note: This product is for research use only.

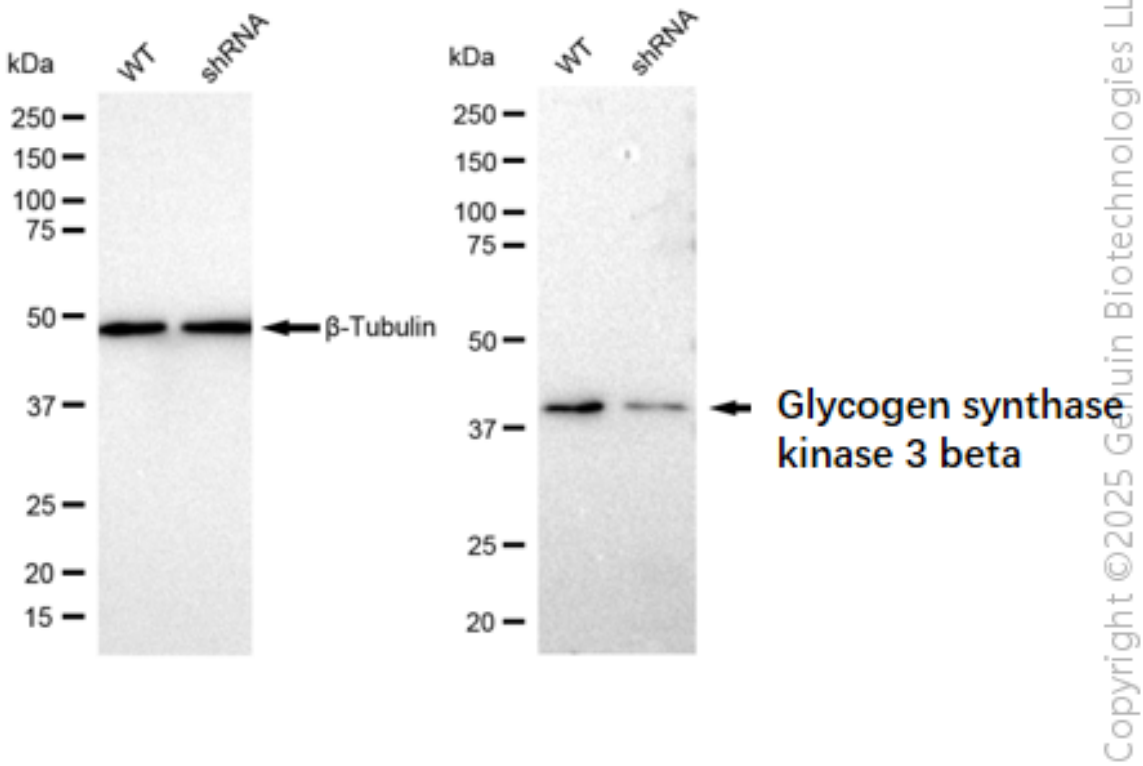
Validation Data

Human GSK3B Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.78
Knock-Down	21.75
ΔCt (CtKD-CtWT)	0.97
% mRNA Reduction	49%

RT-qPCR analysis. HeLa cells were infected with GSK3B-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. GSK3B 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 GSK3B and β-Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.