# **Human SIRT3 Knockdown Cell Line (WB-Validated)**



## **Catalog #: C65604**

#### **Aliases**

SIRT3; Sirtuin 3; SIR2L3; NAD-Dependent Protein Deacetylase Sirtuin-3, Mitochondrial; Regulatory Protein SIR2 Homolog 3; SIR2-Like Protein 3; Sirtuin (Silent Mating Type Information Regulation 2 Homolog) 3 (S. Cerevisiae); Sirtuin (Silent Mating Type Information Regulation 2, S.Cerevisiae, Homolog) 3; Mitochondrial Nicotinamide Adenine Dinucleotide-Dependent Deacetylase; Silent Mating Type Information Regulation 2, S.Cerevisiae, Homolog 3; NAD-Dependent Deacetylase Sirtuin-3, Mitochondrial; Sirtuin Type 3; EC 2.3.1.286; Sir2-Like 3; HSIRT3

## **Background**

Gene Name: SIRT3

NCBI Gene Entry: 23410

## **Storage**

Store at liquid nitrogen for 1 year.

## **Kit Components**

- 1. Human SIRT3 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**

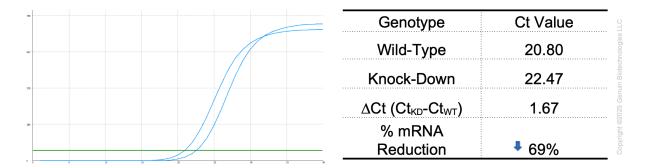
Shipped on Dry Ice.

### **Instructions For Use**

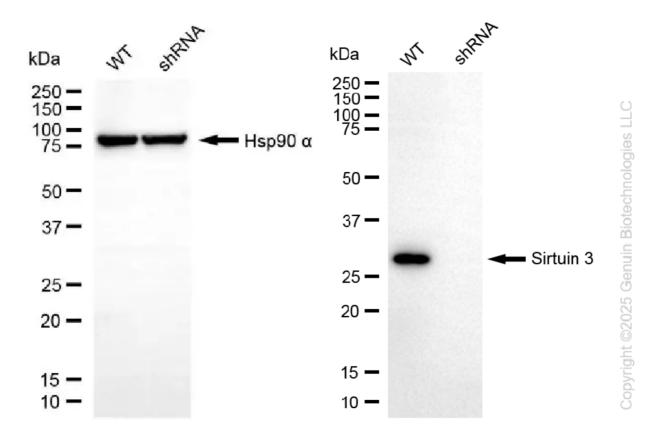
This knockdown cell line should be paired with wild-type cell line for use.

**Note:** This product is for research use only.

#### Validation Data



RT-qPCR analysis. HeLa cells were infected with SIRT3-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta$ Ct (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula:  $(1-1/2\Delta$ Ct) x 100%.



Western blotting analysis.SIRT3 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90  $\alpha$  served as a loading control. The blots were incubated with primary antibodies against SIRT3 and Hsp90  $\alpha$ , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ<sup>TM</sup> ECL Substrate Kit.