

Human NHEJ1 Knockdown Cell Line (WB-Validated)



Catalog #: C62363

Aliases

Non-Homologous End Joining Factor 1; XLF; XRCC4-Like Factor; Non-Homologous End-Joining Factor 1; Nonhomologous End-Joining Factor 1; Protein Cernunnos; Cernunnos; FLJ12610

Background

Gene Name: NHEJ1

NCBI Gene Entry: [79840](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human NHEJ1 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

SUPPORT@GENUINBIOTECH.COM
TEL: +1-540-855-7041

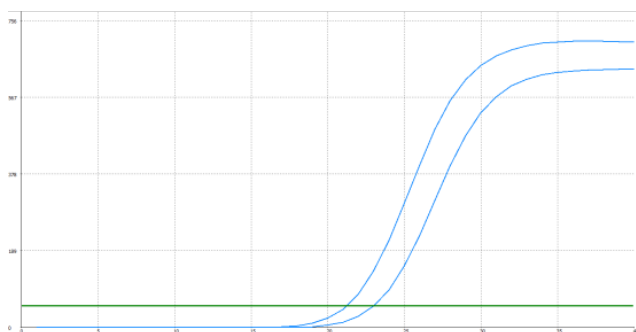
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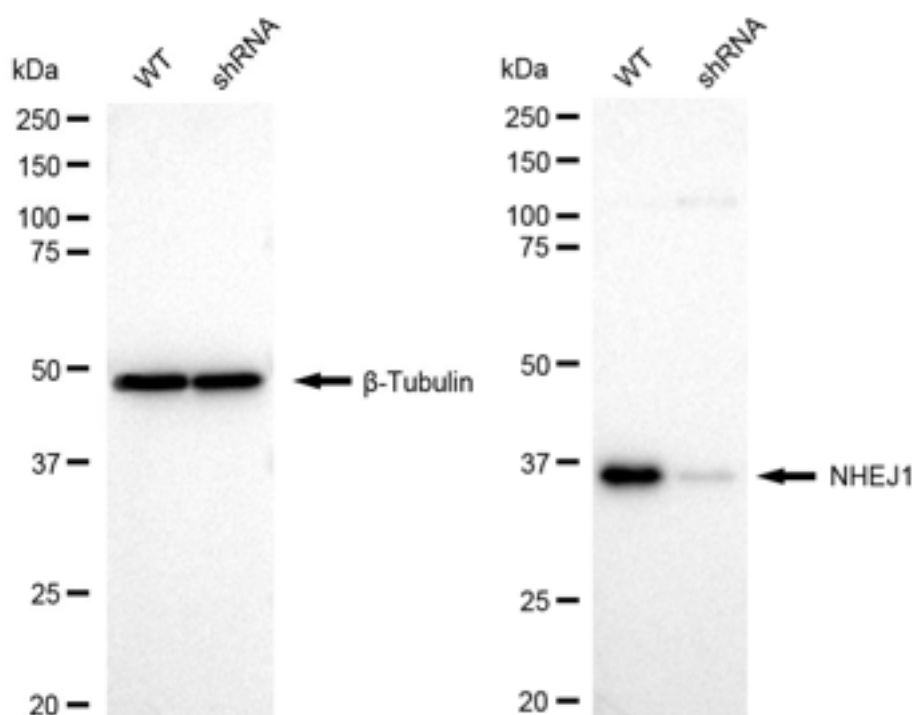
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Genotype	Ct Value
Wild-Type	21.14
Knock-Down	22.72
Δ Ct (CtKD-CtWT)	1.58
% mRNA Reduction	67%

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RT-qPCR analysis. HeLa cells were infected with NHEJ1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. Δ Ct (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta\text{Ct}}) \times 100\%$.



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Western blotting analysis. NHEJ1 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 NHEJ1 and β -Tubulin, respectively, followed

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by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.

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