

Human NEK2 Knockdown Cell Line (WB-Validated)



Catalog #: C61168

Aliases

NEK2; NIMA Related Kinase 2; NEK2A; NLK1; PPP1R111; RP67; NIMA (Never In Mitosis Gene A)-Related Kinase 2; Protein Phosphatase 1, Regulatory Subunit 111; Serine/Threonine-Protein Kinase Nek2; NimA-Related Protein Kinase; NimA-Like Protein Kinase 1; EC 2.7.11.1; Never In Mitosis A-Related Kinase; EC 2.7.11; HsPK 21; HSPK 21; HsPK21

Background

Gene Name: NEK2

NCBI Gene Entry: [4751](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human NEK2 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

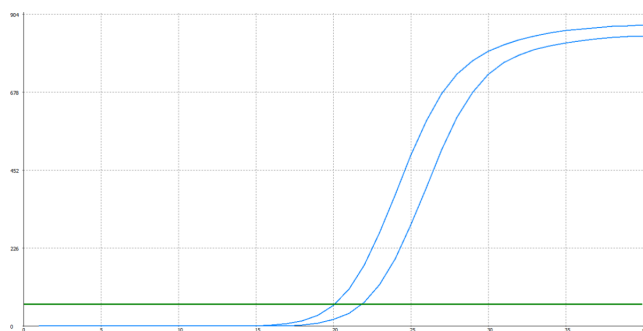
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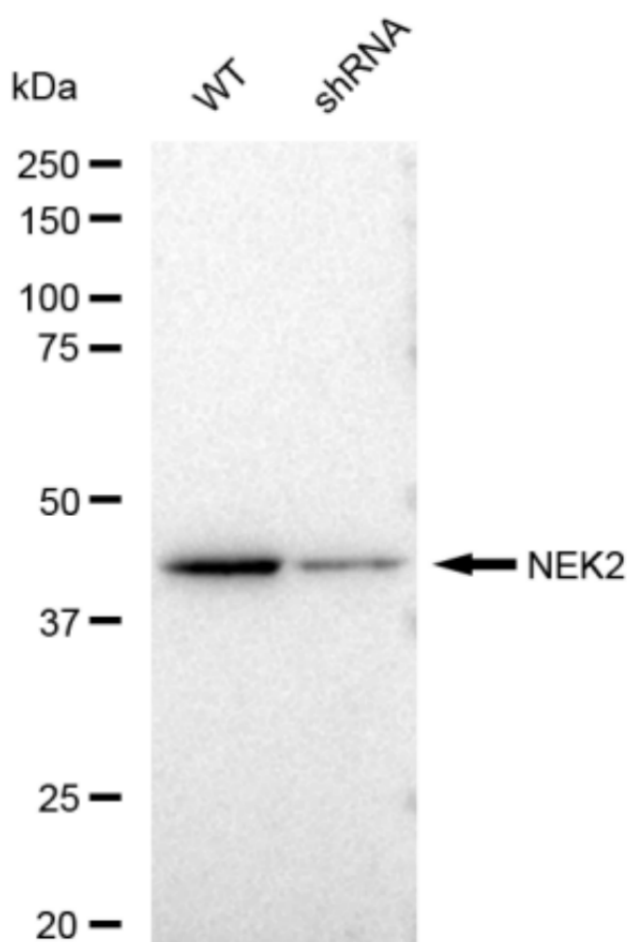
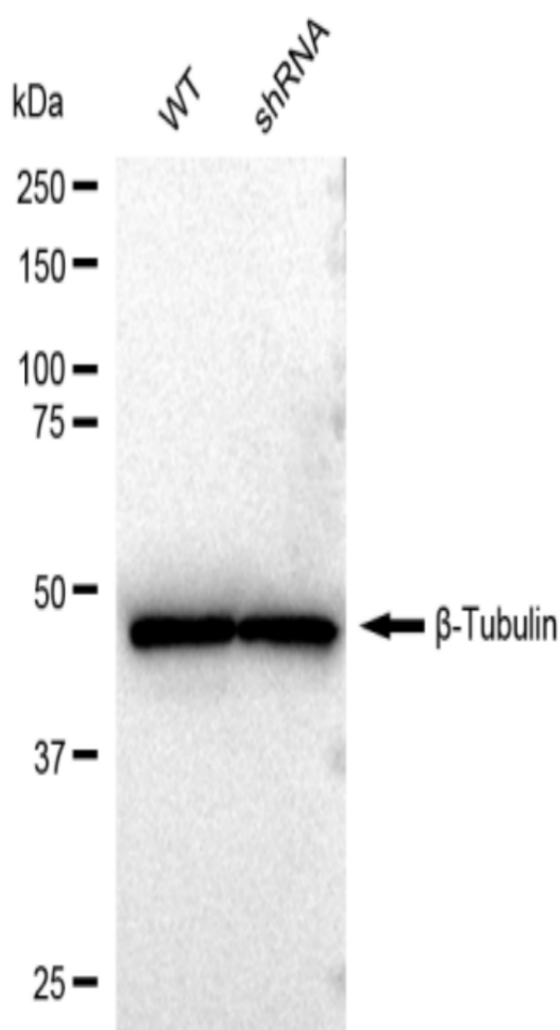
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Genotype	Ct Value
Wild-Type	20.05
Knock-Down	21.72
$\Delta Ct (Ct_{KD} - Ct_{WT})$	1.67
% mRNA Reduction	↓ 69%

RT-qPCR analysis. HeLa cells were infected with NEK2-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: $(1 - 1/2^{\Delta Ct}) \times 100\%$.



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Western blotting analysis. NEK2 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 (Cat#61168, 1:5,000) against NEK2 and β -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).