Human NFKB1 Knockdown Cell Line (WB-Validated)

Catalog #: C85241

Aliases

NFKB1; Nuclear Factor Kappa B Subunit 1; Nuclear Factor Of Kappa Light Polypeptide Gene Enhancer In B-Cells 1; Nuclear Factor NF-Kappa-B P105 Subunit; NFKB-P50; NF-KB1; KBF1; DNA-Binding Factor KBF1; NF-KappaB; NFkappaB; EBP-1; P105; P50; Nuclear Factor Kappa-B DNA Binding Subunit; Nuclear Factor NF-Kappa-B P50 Subunit; NF-Kappabeta; NF-Kappa-B1; NFKB-P105; NF-KAPPAB; NFKAPPAB; CVID12; NF-KB

Background

Gene Name: NFKB1
NCBI Gene Entry: 4790

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human NFKB1 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.

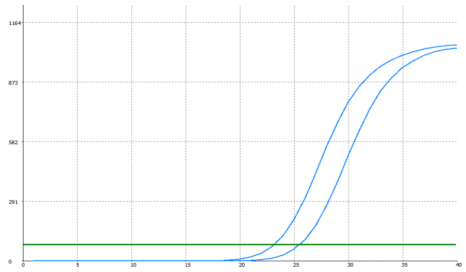
Instructions For Use

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

Note: This product is for research use only.

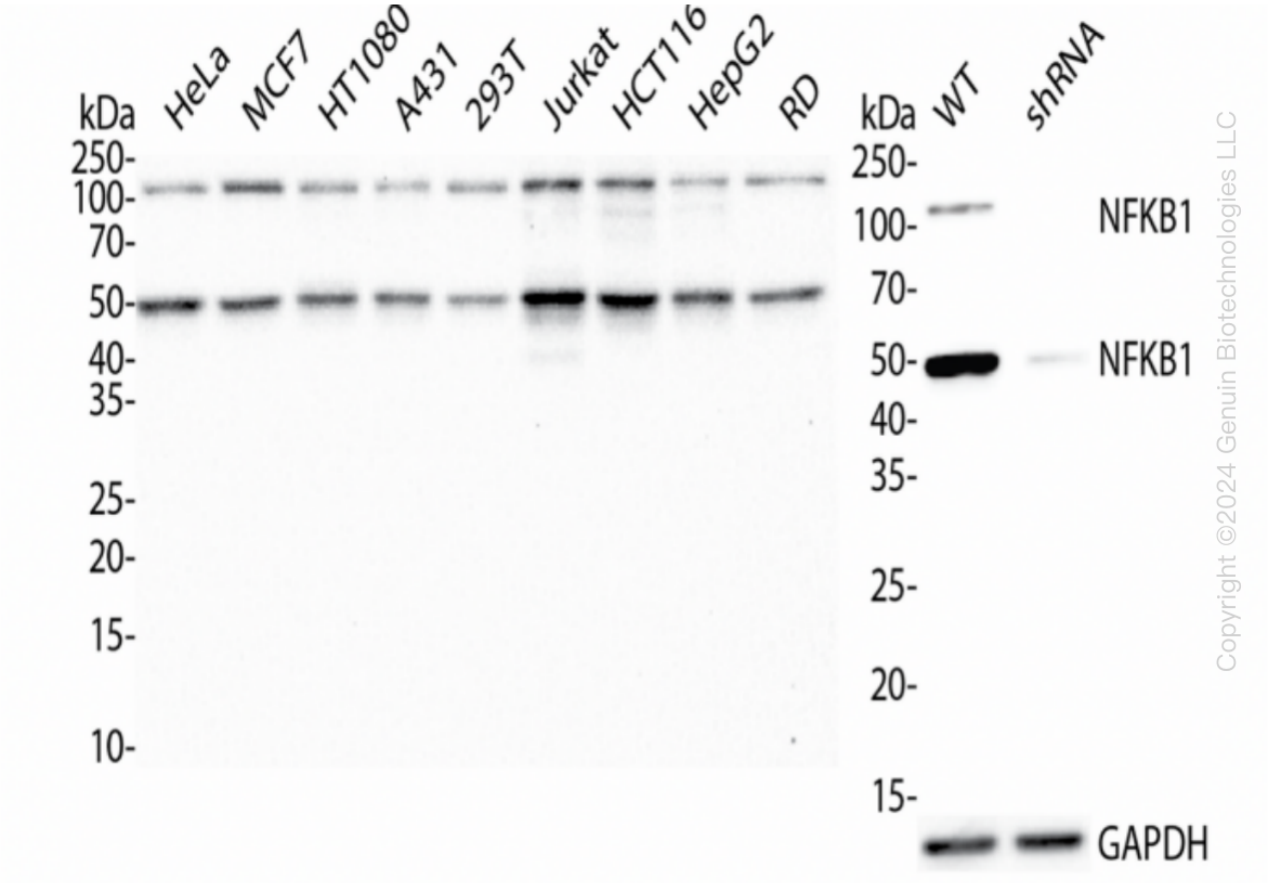
Validation Data

Human NFKB1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	23.06
Knock-Down	25.34
ΔCt (Ct_{KD}-Ct_{WT})	2.28
% mRNA Reduction	⬇ 79%

RT-qPCR analysis. HeLa cells were infected with NFKB1-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. NFKB1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. GAPDH served as a loading control. The blots were incubated with primary antibodies (Cat#61524, 1:5,000) against NFKB1 and GAPDH, 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).