

# Human NFKB1 Knockdown Cell Lysate

**Cat. No.** NFKB1-255HKCL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	WB-validated NFKB1 Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>This gene encodes a 105 kD protein which can undergo cotranslational processing by the 26S proteasome to produce a 50 kD protein. The 105 kD protein is a Rel protein-specific transcription inhibitor and the 50 kD protein is a DNA binding subunit of the NF-kappa-B (NFKB) protein complex. NFKB is a transcription regulator that is activated by various intra- and extra-cellular stimuli such as cytokines, oxidant-free radicals, ultraviolet irradiation, and bacterial or viral products. Activated NFKB translocates into the nucleus and stimulates the expression of genes involved in a wide variety of biological functions. Inappropriate activation of NFKB has been associated with a number of inflammatory diseases while persistent inhibition of NFKB leads to inappropriate immune cell development or delayed cell growth. NFKB is a critical regulator of the immediate-early response to viral infection. Alternative splicing results in multiple transcript variants encoding different isoforms, at least one of which is proteolytically processed.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	105 kDa
<b>Notes</b>	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa

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cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.

**Storage**

Store at -20 centigrade.

**Concentration**

Lot-specific

**Shipping**

Blue Ice

**Components**

1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg NFKB1 KD HeLa cell lysate

**Protein Families**

Druggable Genome, Transcription Factors

**Protein Pathways**

Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, MAPK signaling pathway, Metabolic pathways, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

**Lysate QC**

RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

**Gene Name**

NFKB1 nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 [ Homo sapiens (human) ]

**Official Symbol**

NFKB1

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**Synonyms** NFKB1; nuclear factor of kappa light polypeptide gene enhancer in B-cells 1; nuclear factor NF-kappa-B p105 subunit; KBF1; NF kappaB; NF kB1; NFkappaB; NFKB p50; p50; p105; NF-kappabeta; DNA binding factor KBF1; DNA-binding factor KBF1; nuclear factor NF-kappa-B p50 subunit; nuclear factor kappa-B DNA binding subunit; EBP-1; NF-kB1; NFKB-p50; NF-kappaB; NFKB-p105; NF-kappa-B; MGC54151; DKFZp686C01211;


**Gene ID** 4790

**mRNA Refseq** NM\_001165412

**Protein Refseq** NP\_001158884

**MIM** 164011

**UniProt ID** P19838

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