

## Recombinant Human NFKB1, His-tagged

Cat. No. NFKB1-633H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human NFKB1 is produced in Sf21 cells and fused to a His-tag.

**Species** Human

**Source** Sf21 Cells

**Description** This gene encodes a 105 kDa protein which can undergo cotranslational processing by the 26S proteasome to produce a 50 kDa protein. The 105 kDa protein is a Rel protein-specific transcription inhibitor and the 50 kDa 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. Two transcript variants encoding different isoforms have been found for this gene.

**Concentration** 0.2mg/ml.

**Formulation** Liquid. In 50mM TRIS-HCl, pH 7.5, containing 100mM sodium chloride, 0.2% NP-40, 50-100mM imidazole and 10% glycerol.

**Specific Activity** ~1ng is required for high mobility shift assay. ~5ng are required for reconstituted transcription assays.

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**Storage** -80°C. After opening, prepare aliquots and store in liquid nitrogen. Avoid freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** [NFKB1 nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 \[ Homo sapiens \]](#)

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

**Gene ID** [4790](#)

**mRNA Refseq** [NM\\_001165412](#)

**Protein Refseq** [NP\\_001158884](#)

**MIM** [164011](#)

**UniProt ID** [P19838](#)

**Chromosome Location** 4q24

**Pathway** Acute myeloid leukemia; Adipocytokine signaling pathway; B cell receptor signaling pathway; Chemokine signaling pathway; Epithelial cell signaling in Helicobacter pylori infection; Leishmania infection; NOD-like receptor signaling pathway; Pancreatic cancer; RIG-I-like receptor signaling pathway; Small cell lung cancer; T cell receptor signaling pathway; Toll-like receptor signaling pathway; Signalling by NGF

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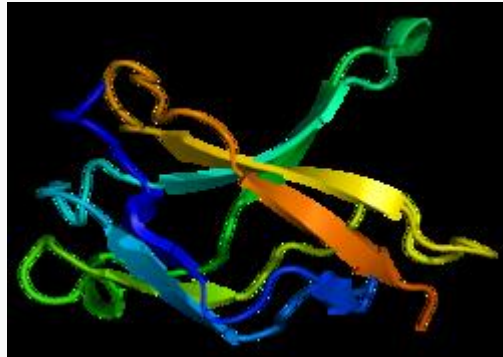
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**Function**

promoter binding; protein binding; transcription factor activity

PDB rendering based  
on 1bfs.



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