

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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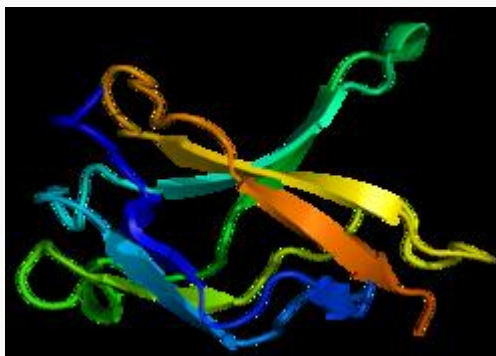
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Function

promoter binding; protein binding; transcription factor activity

PDB rendering based
on 1bfs.



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