Recombinant Human NFKB1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human NFKB1 isproduced 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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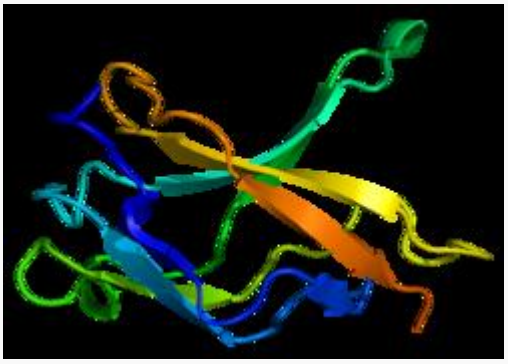
Function	promoter binding; protein binding; transcription factor activity
PDB rendering based on 1bfs.	

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