

Recombinant Human NFKB1 protein, His/T7-tagged

Cat. No. NFKB1-301H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NFKB1 fused with His/T7 tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	<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. Two transcript variants encoding different isoforms have been found for this gene.</p>
Form	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Molecular Mass	40.6kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMASMTGGQQMGRGSEF-PYLQILEQP KQRGFRFR YV CEGPSHGGLP GASSEKNKKS YPQVKICNYV GPAKIVQLV TNGKNIHLHA HS

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LVGKHCED GICTVTAGPK DMVVGANLG ILHVTKKKVF ETLEARMTEA CIRGYNP
 GLL VHPDLAYLQA EGGDRQLGD REKELIRQAA LQQTKEMDLS VVRLMFTAFL P
 DSTGSFTRR LEPVVSDAIY DSKAPNASNL KIVRMDRTAG CVTGGEEIYL LCDKVQ
 KDDI QIRFYEEEEEN GGVWEGFGDF SPTDVHRQFA IVFKTPKYKD INITKPASVF V
 QLRRKSDLE TSEPKPFLYY PEIKDKEEVQ RKRQKLM

Endotoxin <1.0EU per 1g (determined by the LAL method)

Purity > 95%

Applications SDS-PAGE; WB; ELISA; IP.

Storage Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

Reconstitution Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

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

Official Symbol [NFKB1](#)

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;

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Gene ID	4790
mRNA Refseq	NM_001165412
Protein Refseq	NP_001158884
MIM	164011
UniProt ID	P19838
Chromosome Location	4q24
Pathway	Activated TLR4 signalling, organism-specific biosystem; Activation of NF-kappaB in B Cells, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem;
Function	nucleic acid binding transcription factor activity; protein binding; regulatory region DNA binding; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding; transcription regulatory region sequence-specific DNA binding;

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