

Recombinant Human NFKB1 protein, MYC/DDK-tagged

Cat. No. NFKB1-300H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NFKB1 fused with MYC/DDK tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
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	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	105.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Concentration >50 ug/mL as determined by microplate BCA method

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;

Gene ID 4790

mRNA Refseq NM_003998

Protein Refseq NP_003989

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

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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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