

# Recombinant Human NFKB1

**Cat. No.** NFKB1-30382TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant fragment corresponding to amino acids 860-969 of Human NFκB p105 / p50 with a proprietary tag; Predicted MWt 37.73 kDa including tag.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	110 amino acids
<b>Description</b>	<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>
<b>Molecular Weight</b>	37.730kDa inclusive of tags
<b>Form</b>	Liquid

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<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.79% Tris HCl, 0.31% Glutathione
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	MDNYEVSGGTVRELVEALRQMGYTEAIEVIQAASSPVKTTTSAHSLPLSPASTRQQI DELRDSDSVCDSGVETSFRKLSFTESLTSGASLLTLNKMPHDYQGEGPLEGKI
<b>Sequence Similarities</b>	Contains 7 ANK repeats. Contains 1 death domain. Contains 1 RHD (Rel-like) domain.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">NFKB1 nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">NFKB1</a>
<b>Synonyms</b>	NFKB1; nuclear factor of kappa light polypeptide gene enhancer in B-cells 1; nuclear factor NF-kappa-B p105 subunit; KBF1; NF kappaB; NFkappaB; NFKB p50; p50; p105;
<b>Gene ID</b>	<a href="#">4790</a>
<b>mRNA Refseq</b>	<a href="#">NM_001165412</a>
<b>Protein Refseq</b>	<a href="#">NP_001158884</a>
<b>MIM</b>	<a href="#">164011</a>

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<b>Uniprot ID</b>	P19838
<b>Chromosome Location</b>	4q24
<b>Pathway</b>	Activated TLR4 signalling, 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;
<b>Function</b>	nucleic acid binding transcription factor activity; protein binding; regulatory region DNA binding; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding;

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