

## Recombinant Human NFkB-p50 protein, active, GST-tagged

Cat. No. NFKB1-85H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant NFkB p50 protein was expressed as GST-tag and purified clone in E. coli (accession number (P19838).

**Species** Human

**Source** E.coli

**Description** NF- $\kappa$ B (nuclear factor kappa-light-chain-enhancer of activated B cells) is a protein complex that controls the transcription of DNA. NF- $\kappa$ B is found in almost all animal cell types and is involved in cellular responses to stimuli such as stress, cytokines, free radicals, ultraviolet irradiation, oxidized LDL, and bacterial or viral antigens. NF- $\kappa$ B plays a key role in regulating the immune response to infection (kappa light chains are critical components of immunoglobulins). Incorrect regulation of NF- $\kappa$ B has been linked to cancer, inflammatory and autoimmune diseases, septic shock, viral infection, and improper immune development. NF- $\kappa$ B has also been implicated in processes of synaptic plasticity and memory.

**Molecular Mass** ~75 kda

**Purity** >95%

**Applications** Positive control for ELISA and Western.

**Usage** This item is for LABORATORY RESEARCH USE ONLY.

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**Storage** Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Stable for at least 6-months.

**Storage Buffer** A solution in PBS, pH 7.4, containing 5 mM DTT and 20% glycerol.

**Shipping** Shipped in dry ice

## 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\\_001165412](#)

**Protein Refseq** [NP\\_001158884](#)

**MIM** [164011](#)

**UniProt ID** [P19838](#)

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<b>Chromosome Location</b>	4q24
<b>Pathway</b>	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;
<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; transcription regulatory region sequence-specific DNA binding;

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