

Recombinant Full Length Human NFkB1 Protein

Cat. No. NFkB1-343HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein of Human NFkB p105 / p50 with proprietary tag; predicted MW 132.66 kDa, inclusive of tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	968 amino acids
Description	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.
Form	Liquid
Molecular Mass	132.660kDa inclusive of tags

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AA Sequence

MAEDDPYLGRPEQMFHLDPSLTHTIFNPEVFQPQMALPTA DGPYLQILEQPKQGRF
 RFRYVCEGSPSHGGLPGASSEKNKK SYPQVKICNYVGPAKVIVQLVTNGKNIHLHAH
 SLVGKHCE DGICTVTAGPKDMVVGAFANLGILHVTKKKVFETLEARMTE ACIRGYNP
 GLLVHPDLAYLQAEGGGDRQLGDREKELIRQA ALQQTKEMDLSVVRLMFTAFLPDS
 TGSFTRRLEPVVSDAI YDSKAPNASNLKIVRMDRTAGCVTGGEIYLLCDKVQKDD I
 QIRFYEEEEENGWEGFGDFSPSTDVHRQFAIVFKTPKYK DINITKPASVVFQLRRKS
 DLETSEPKPFLYYPEIKDKEEV QRKRQKLMPNFSDFSFGGSGAGAGGGGMFGSG
 GGGGGTGS TGPGYSFPHYGFPTYGGITFHPGTTKSNAGMKHGTMDTES KKDPEG
 CDKSDDKNTVNLFGKVIETTEQDQEPSEATVGNG EVTLTYATGTKEESAGVQDNLF
 LEKAMQLAKRHANALFDY AVTGDVKMLLAVQRHLTAVQDENGDSVLHLAIIHLHSQL
 V RDLLEVTSGLISDDIINMRNDLYQTPLHLAVITKQEDVVE DLLRAGADLSLLDRLGN
 SVLHLAAKEGHDKVLSILLKHKK AALLLDHPNGDGLNAIHLAMMSNSLPCLLLLVAAG
 ADVNA QEQKSGRTALHLAVEHDNISLAGCLLLEGDAHVDSTTYDG TTPLHIAAGRG
 STRLAALLKAAGADPLVENFEPLYDLDDS WENAGEDEGVVPGTTPLDMATSWQVF
 DILNGKPYEPEFTS DDLLAQGDMKQLAEDVKLQLYKLEIPDPDKNWATLAQKL GL
 GILNNAFRLSPAPSKTLMNDNYEVSGGTVRELVEALRQM GYTEAIEVIQAASSPVKTT
 SQAHSPLSPASTRQQIDELR DSDSVCDSGVETSFRKLSFTESLTSGASLLTLNKMP
 HDYG QEGPLEGKI

Purity

Proprietary Purification

Storage

Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer

pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION
Gene Name

NFKB1 nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 [Homo sapiens]

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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; NFkappaB; NFKB p50; p50; p105
Gene ID	4790
mRNA Refseq	NM_001165412
Protein Refseq	NP_001158884
MIM	164011
UniProt ID	P19838

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