

Recombinant Human NFKB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NFKB1-5277H Lot. No. (See product label)

SPECIFICATION

Product Overview

NFKB1 MS Standard C13 and N15-labeled recombinant protein (NP_003989) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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. Alternative splicing results in multiple transcript variants encoding different isoforms, at least one of which is proteolytically processed.

Molecular Mass

105.2 kDa

AA Sequence

MAEDDPYLGRPEQMFHLDPSLTHTIFNPEVFQPQMALPTADGPYLQILEQPKQRGF

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RFRYVCEGPSHGGLPGASSEKNKKSYPQVKICNYVGPAAKVVQLVTNGKNIHLHAHS
 LVGKHCEDEGICTVTAGPKDMVVGAFANLILHVTKKKVFETLEARMTEACIRGYNPGL
 LVHPDLAYLQAEGGGDRQLGDREKELIRQAALQQTKEMDLSVVRMFTAFLPDSTG
 SFTRRLEPVVSDAIYDSKAPNASNLKIVRMDRTAGCVTGGEEIYLLCDKVQKDDIQIR
 FYEEEENGGVWEGFGDFSPDTHRQFAIVFKTPKYKDINITKPASVQVQLRRKSDLE
 TSEPKPFLYYPEIKDKEEVQRKRQKLMNPFSDSFGGGSGAGAGGGGMFGSGGGG
 GGTGSTGPGYSFPHYGFPTYGGITFHPGTTKSNAGMKHGTMDTESKKDPEGCDKS
 DDKNTVNLFGKVIETTEQDQEPSEATVGNGEVTLTYATGTKEESAGVQDNLFLEKA
 MQLAKRHANALFDYAVTGDVKMLLAVQRHLTAVQDENGDSVLHLAIIHLHSQLVRDL
 LEVTSGLISDDIINMRNDLYQTPLHLAVITKQEDVVEDLLRAGADLSLLDRLGNSVLHL
 AAKEGHDKVLSILLKHKKAALLLDHPNGDGLNAILHAMMSNSLPCLLLLVAAGADVNA
 QEQKSGRTALHLAVEHDNISLAGCLLLEGDAHVDSTTYDGTPLHIAAGRGSTRLAA
 LLKAAGADPLVENFEPLYDLDDSWENAGEDEGVVPGTTPLDMATSWQVFDILNGKP
 YEPEFTSDDLLAQGDMKQLAEDVKLQLYKLEIPDPDKNWATLAQKLGILNNAFR
 LSPAPSKTMDNYEVSGGTVRELVEALRQMGYTEAIEVIQAASSPVKTTTSAHSLPL
 SPASTRQQIDELRSDSVCDSGVETSFRKLSFTESLTSGASLLTLNKMPHDYQGEG
 PLEGKITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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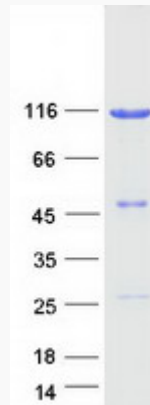
| | |
|------------------------|--|
| Gene Name | NFKB1 nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 [Homo sapiens (human)] |
| Official Symbol | NFKB1 |
| Synonyms | NFKB1; nuclear factor of kappa light polypeptide gene enhancer in B-cells 1; nuclear factor NF-kappa-B p105 subunit; 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 |

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SDS-PAGE



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