

NFKB2/P52 protein

NFKB2/P52 (His tag)

CATALOG #
AAA269813

HOST
E coli

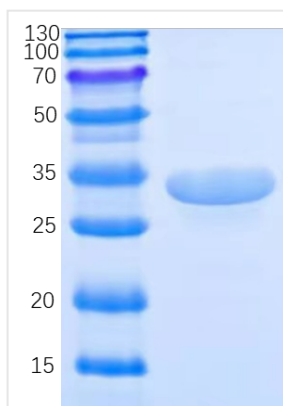
PRODUCT SYNONYMS

NFKB2/P52; NFKB2/P52 (His tag); CVID10;DNA binding factor KBF2;H2TF1;Lymphocyte translocation chromosome 10; Lyt 10;NFKB2; NFKB2_HUMAN; Nuclear factor NF kappa B p100 subunit; Nuclear factor NF kappa B p52 subunit; Nuclear factor of kappa light chain gene enhancer in B cells 2; Nuclear factor of kappa light polypeptide gene enhancer in B cells 2; Oncogene Lyt 10; p105; p49/p100; NFKB2/P52 protein

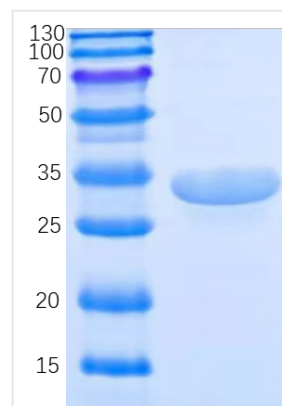
PRODUCT SPECIFICATIONS

Host	E coli
Form/Format	Purified protein solution after extensive dialysis against PBS, pH 7.4.
Sequence	NEEPLCPLPS PPTSDSDSDS EGPEKDTRSS FRGHTPLDLT CSTKVKTLL NAAQNTMEPP LTPSPAGPG LSLGDTALQN LEQLLDGPEA QGSWAELAER LGLRSLVDY RQTTPSPGSL LRSYELAGGD LAGLLEALSD MGLEEGVRL RGPETRDKLP STAEVKEDSA YGSQSVEQEA EKLGPPEPP GGLCHGHPQP QVH Accession#: Q00653 .4
Species	Human
Tag	His
Expression System	NF-kappa-B, produced in E coli is a single non-glycosylated polypeptide chain containing 203 amino acids. A fully biologically active molecule has a molecular mass of 21.4 kDa. The apparent molecular mass of the protein is approximately 27 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Preparation and Storage	For long term storage, the product should be stored at -20 degree C or lower. Please avoid repeated freeze-thaw cycles.

IMAGES



SDS-PAGE
SDS-PAGE of p52 (#AAA269813).



Application Data

ADDITIONAL INFORMATION

Related Product Information for NFKB2/P52 protein	NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processes such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. In a non-canonical activation pathway, the MAP3K14-activated CHUK/IKKa homodimer phosphorylates NFKB2/p100 associated with RelB, inducing its proteolytic processing to NFKB2/p52 and the formation of NF-kappa-B RelB-p52 complexes. The NF-kappa-B heterodimeric RelB-p52 complex is a transcriptional activator. The NF-kappa-B p52-p52 homodimer is a transcriptional repressor. NFKB2 appears to have dual functions such as cytoplasmic retention of attached NF-kappa-B proteins by p100 and generation of p52 by a cotranslational processing. The proteasome-mediated process ensures the production of both p52 and p100 and preserves their independent function. p52 binds to the kappa-B consensus sequence 5'-GGRNYYCC-3', located in the enhancer region of genes involved in immune response and acute phase reactions. p52 and p100 are respectively the minor and major form; the processing of p100 being relatively poor. Isoform p49 is a subunit of the NF-kappa-B protein complex, which stimulates the HIV enhancer in synergy with p65
Product Categories/Family for NFKB2/P52 protein	Protein & Antigen

NCBI AND UNIPROT INFORMATION

Molecular Weight	21.4 kDa. The apparent molecular mass of the protein is approximately 27 kDa with 6XHis tag observed by reducing SDS-PAGE.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/e-coli-protein/nfkb2-p52/269813>