

NFKB1 Rabbit mAb

Catalog No.: A27463 **Recombinant**

Basic Information

Observed MW**Calculated MW**

105kDa

Category

Primary antibody

Applications

WB,IHC-P,IP,ELISA,CHIP

Cross-Reactivity

Human, Mouse

CloneNo number

ARC3483

Background

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. NFKB is a critical regulator of the immediate-early response to viral infection. Alternative splicing results in multiple transcript variants encoding different isoforms, at least one of which is proteolytically processed.

Recommended Dilutions

WB 1:1000 - 1:5000**IHC-P** 1:100 - 1:5000**IP** 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells**ELISA** Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.**ChIP** 5µg antibody for
5µg-10µg of Chromatin

Contact

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Immunogen Information

Gene ID

4790

Swiss Prot

P19838

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

KBF1; EBP-1; NF-kB; CVID12; NF-kB1; NFKB-p50; Nf-kappaB; NF-kappaB; NFKB-p105; NF-kappa-B1; NF-kappabeta

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

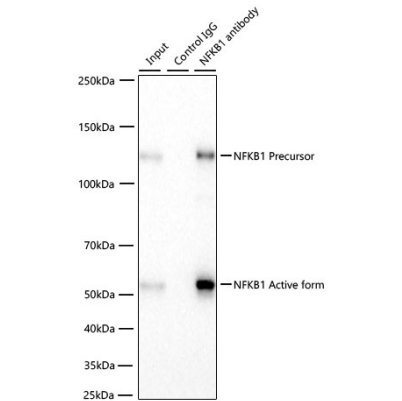
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

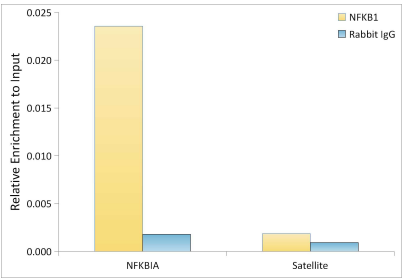


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Validation Data



Immunoprecipitation of NFKB1 from 300 µg extracts of Raji cells was performed using 1 µg of NFKB1 Rabbit mAb (A27463). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using NFKB1 Rabbit mAb (A27463) at a dilution of 1:1000.



Chromatin immunoprecipitation was performed with 20 µg of cross-linked chromatin from MCF7, using 3 µg of NFKB1 Rabbit mAb (A27463) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.