

NFKB1 Rabbit pAb

Catalog No.: A6667SP **78 Publications**

Basic Information

Observed MW

50 kDa (Active form)/120 kDa (Precursor)

Calculated MW

105 kDa/86 kDa

Category

Primary antibody

Applications

WB,IP,IHC-P,ChIP,ELISA

Cross-Reactivity

Human, Mouse

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 - 1:3000

IP 0.5 µg - 4 µg antibody for
200 µg - 400 µg extracts
of whole cells

IHC-P 1:200 - 1:800

ChIP 5 µg antibody for 5 µg -
20 µg of Chromatin.

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$) a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

4790

Swiss Prot

P19838

Immunogen

This information is considered to be commercially sensitive.

Synonyms

KBF1; EBP-1; NF-kB; CVID12; NF-kB1; NFKB-p50; NfkappaB; NF-kappaB; NFKB-p105; NF-kappa-B1; NF-kappabeta; NFKB1

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

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

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

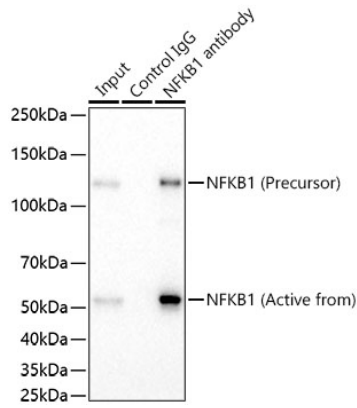
Contact

 | 400-999-6126

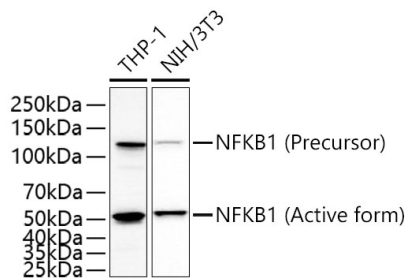
 | cn.market@abclonal.com.cn

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Validation Data



Immunoprecipitation of NFKB1 from 300 µg extracts of Raji cells was performed using 1 µg of NFKB1 Rabbit pAb (A6667SP). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using NFKB1 Rabbit pAb (A6667SP) at a dilution of 1:1000.



Western blot analysis of various lysates using NFKB1 Rabbit pAb (A6667SP) at 1:1000 dilution incubated overnight at 4°C.

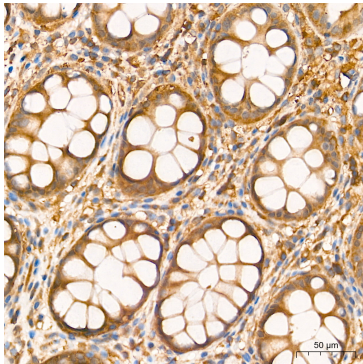
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

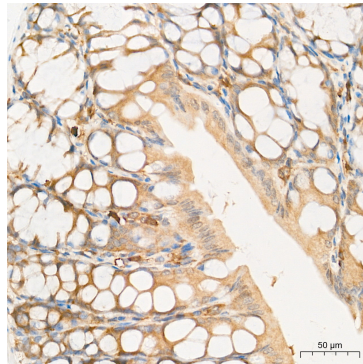
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 45 s.



Immunohistochemistry analysis of paraffin-embedded Human colon tissue using NFKB1 Rabbit pAb (A6667SP) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using NFKB1 Rabbit pAb (A6667SP) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.