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NFKB1 Rabbit mAb

Catalog No.: A27463 Recombinant

Basic Information

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

Calculated MW
105 kDa

Category
Primary antibody

Applications
WB,IP,IF-P,IHC-P,ChIP,ELISA

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
IP	0.5 µg - 4 µg antibody for 200 µg - 400 µg extracts of whole cells
IF-P	1:100 - 1:200
IHC-P	1:200 - 1:400
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.

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; NFkappaB; NF-kappaB; NFKB-p105; NF-kappa-B1; NF-kappabeta

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

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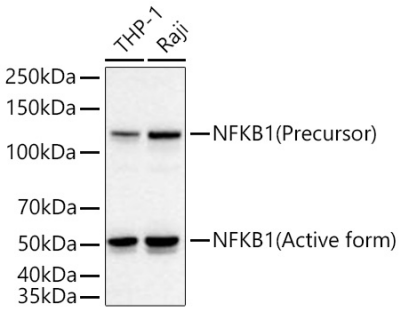
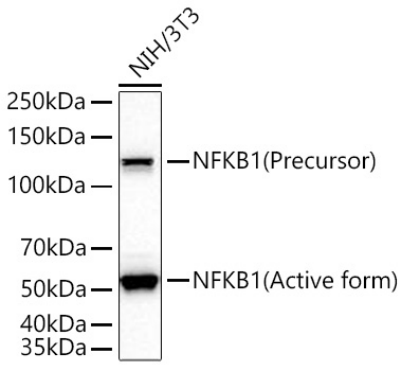
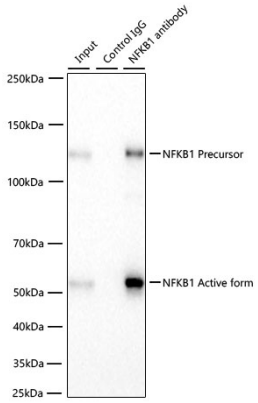
Validation Data



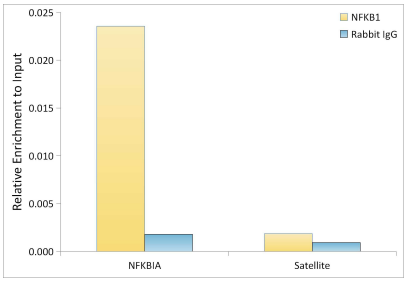
Western blot analysis of various lysates using NFKB1 Rabbit mAb (A27463) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10 s.



Western blot analysis of lysates from NIH/3T3 cells using NFKB1 Rabbit mAb (A27463) at 1:1000 dilution incubated overnight at 4℃.
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: 90 s.

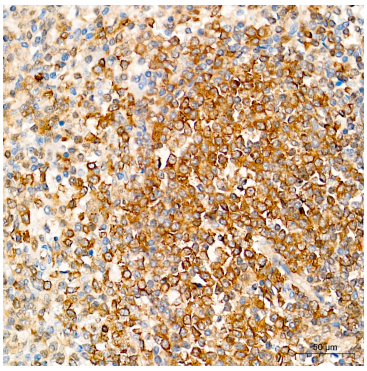


Immunoprecipitation of NFKB1 from 300 µg extracts of Raji cells was performed using 1 µg of NFKB1 Rabbit mAb (A27463). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western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

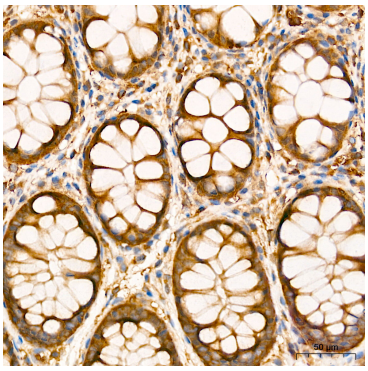


Chromatin immunoprecipitation was performed with 20 µg of cross-linked chromatin from MCF7, using 3 µg of NFKB1 Rabbit mAb (A27463) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio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

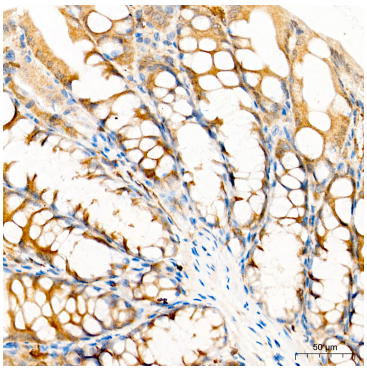
Validation Data



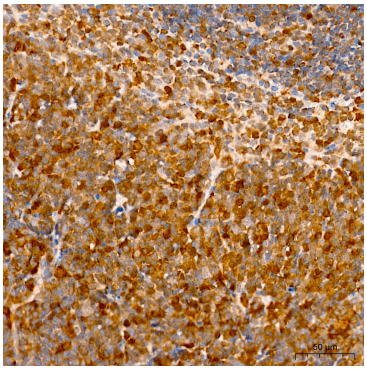
Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using NFKB1 Rabbit mAb (A27463) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



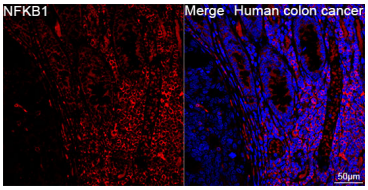
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using NFKB1 Rabbit mAb (A27463) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



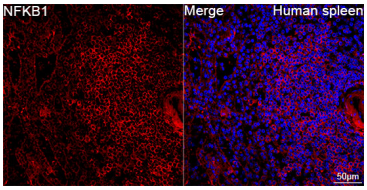
Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using NFKB1 Rabbit mAb (A27463) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



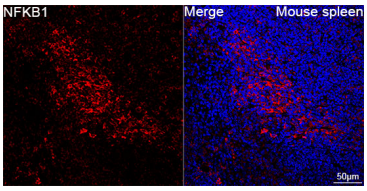
Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using NFKB1 Rabbit mAb (A27463) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



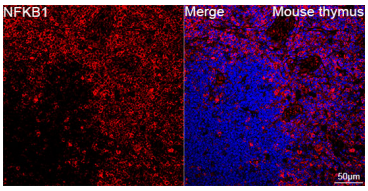
Confocal imaging of paraffin-embedded Human colon cancer tissue using NFKB1 Rabbit mAb (A27463, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Human spleen tissue using NFKB1 Rabbit mAb (A27463, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Mouse spleen tissue using NFKB1 Rabbit mAb (A27463, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0)



Confocal imaging of paraffin-embedded Mouse thymus tissue using NFKB1 Rabbit mAb (A27463, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0)

Validation Data

prior to IF staining. Objective: 40x.

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