Product Data Sheet
NF-kB p65/RelA Rabbit Monoclonal Antibody

Product name:	NF-kB p65/RelA Rabbit Monoclonal Antibody
Cat number:	MAB22331
Conjugate:	Unconjugated
Host:	Rabbit
Size:	100 ug
Synonyms:	p65; CMCU; NFKB3; AIF3BL3; lA
Clone:	C22B4
Concentration:	1mg/ml
Isotype:	IgG
Immunogen:	Synthetic peptide. This information is considered to be commercially sensitive.
Reactivity:	Human,Mouse,Rat,Monkey
Applications:	WB 1:5000 - 1:20000 IHC-P 1:200 - 1:2000 IF/ICC 1:500 - 1:2000 IP 0.5μg-4μg antibody for 200μg-500μg extracts of whole cells ChIP 5μg antibody for 10μg-15μg of Chromatin ELISA Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.
Molecular Weight:	65kDa
Purification:	Affinity purification
Background:	NF-kappa-B is a ubiquitous transcription factor involved in several biological processes. It is held in the cytoplasm in an inactive state by specific inhibitors. Upon degradation of the inhibitor, NF-kappa-B moves to the nucleus and activates transcription of specific genes. NF-kappa-B is composed of NFKB1 or NFKB2 bound to either REL, RELA, or RELB. The most abundant form of NF-kappa-B is NFKB1 complexed with the product of this gene, RELA. Four transcript variants encoding different isoforms have been found for this gene.
Form:	liquid
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.
Storage:	Store at -20℃. Avoid freeze / thaw cycles.

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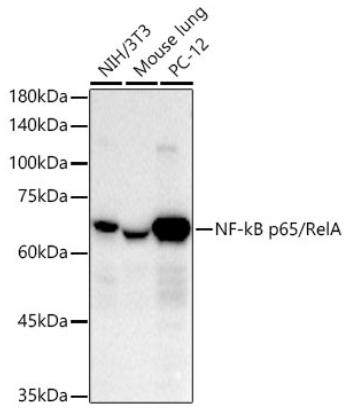
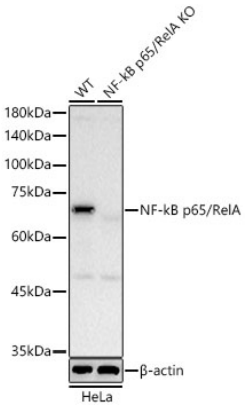
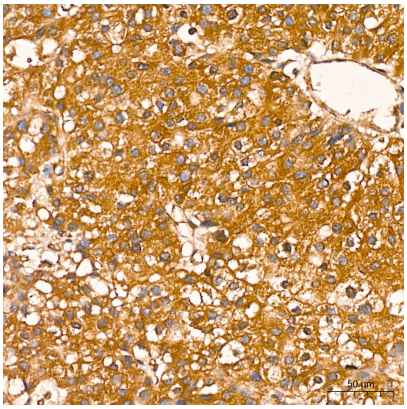


Western blot analysis of various lysates using [KO Validated] NF-kB p65/RelA Rabbit mAb at 1:10000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL West Pico Plus. Exposure time: 30s.



Western blot analysis of lysates from wild type(WT) and NF-kB p65/RelA knockout (KO)HeLa cells, using [KO Validated] NF-kB p65/RelA Rabbit mAb at 1:10000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL West Pico Plus. Exposure time: 10s.



Immunohistochemistry analysis of paraffin-embedded Human liver tissue using [KO Validated] NF-kB p65/RelA Rabbit mAb at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

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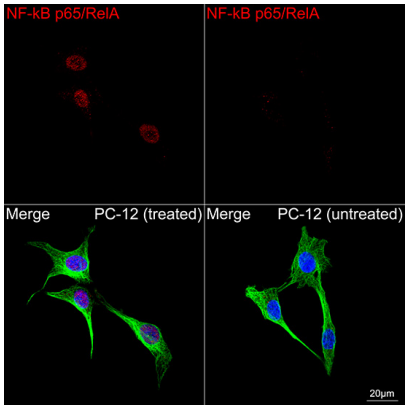
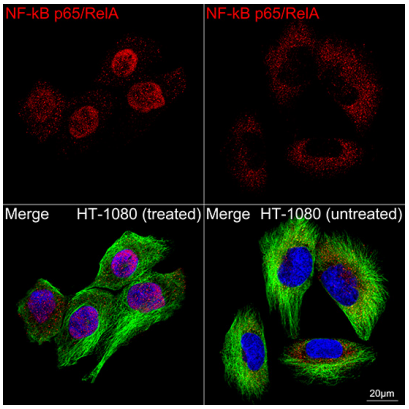
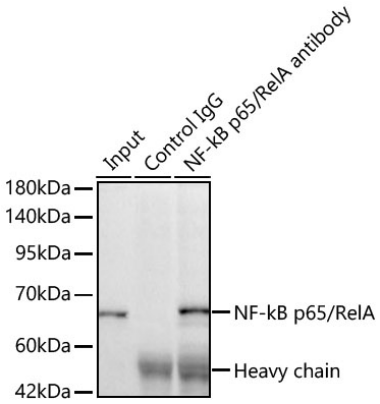


Confocal imaging of PC-12 cells (treated with TNF-α) and PC-12 cells (untreated) cells using [KO Validated] NF-kB p65/RelA Rabbit mAb (, dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (dilution 1:400) followed by incubation with Alexa Fluor 488-conjugated Goat Anti-Mouse IgG (H+L) Ab dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of HT-1080 cells (treated with TNF-α) and HT-1080 cells (untreated) cells using [KO Validated] NF-kB p65/RelA Rabbit mAb (dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (, dilution 1:400) followed by incubation with Alexa Fluor 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunoprecipitation of [KO Validated] NF-kB p65/RelA Rabbit mAb from 500 µg extracts of HeLa cells was performed using 2 µg of [KO Validated] NF-kB p65/RelA Rabbit mAb. Rabbit IgG isotype control 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 [KO Validated] NF-kB p65/RelA Rabbit mAb at a dilution of 1:10000.

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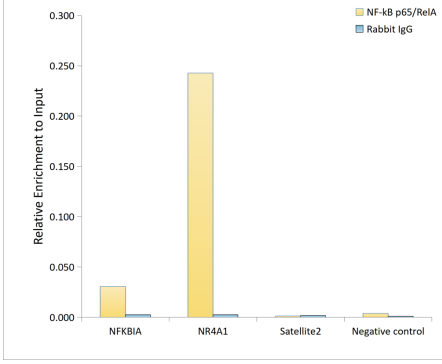

Chromatin immunoprecipitation analysis of extracts of HT-1080 cells, HT-1080 cells were treated by TNF-α (20 ng/ml) at 37℃ for 30 minutes, using [KO Validated] NF-kB p65/RelA Rabbit mAb and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.