

Product Name: KD-Validated NFKB1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01469**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 105.4kDa

Antigen Information

Gene Name	NFKB1 NFKB1; Nuclear Factor Kappa B Subunit 1; Nuclear Factor Of Kappa Light Polypeptide Gene Enhancer In B-Cells 1; Nuclear Factor NF-Kappa-B P105 Subunit; NFKB-P50; NF-KB1; KBF1;
Alternative Names	DNA-Binding Factor KBF1; NF-KappaB; NFkappaB; EBP-1; P105; P50; Nuclear Factor Kappa-B DNA Binding Subunit; Nuclear Factor NF-Kappa-B P50 Subunit; NF-Kappabeta; NF-Kappa-B1; NFKB-P105; NF-KAPPAB; NFKAPPAB; CVID12; NF-KB
Gene ID	4790.0
SwissProt ID	P19838
Immunogen	A synthesized peptide derived from human NF-κB (p105/p50)

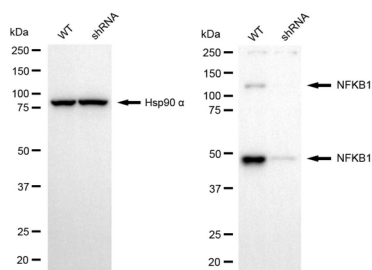
Background

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. [provided by RefSeq, Aug 2020]

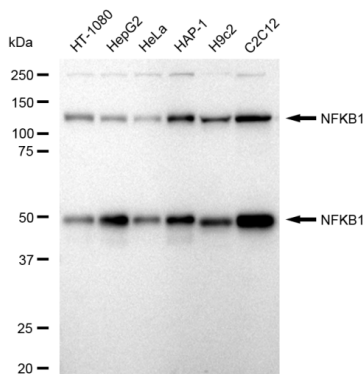
Research Area

Cell Biology, Immunology, Signal Transduction, Epigenetics and Nuclear Signaling, Cancer

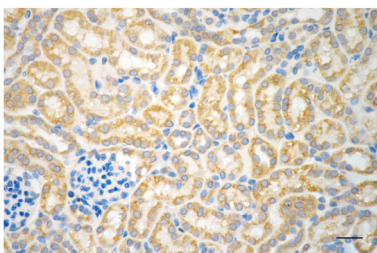
Image Data



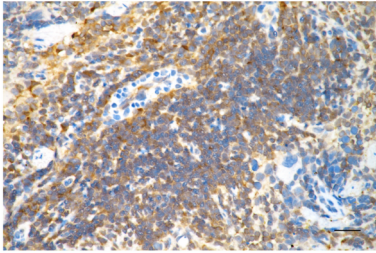
Western blotting analysis using NFKB1 antibody (KVA01469). NFKB1 expression in wild type (WT) and NFKB1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with NFKB1 antibody (KVA01469, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



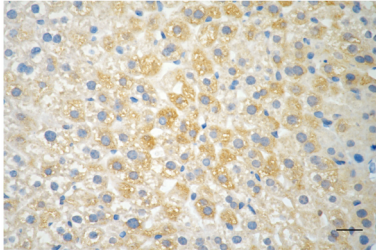
Western blotting analysis using NFKB1 antibody (KVA01469). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NFKB1 antibody (KVA01469, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



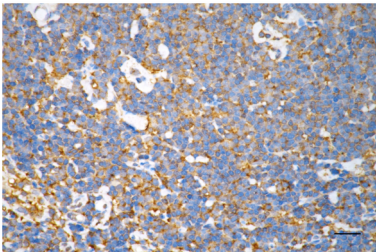
Immunohistochemistry was performed on paraffin-embedded mouse kidney using NFKB1 antibody (KVA01469, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



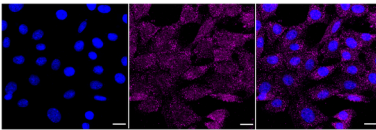
Immunohistochemistry was performed on paraffin-embedded mouse spleen using NFKB1 antibody (KVA01469, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μm.



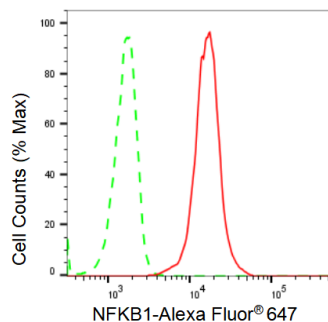
Immunohistochemistry was performed on paraffin-embedded mouse liver using NFKB1 antibody (KVA01469, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μm.



Immunohistochemistry was performed on paraffin-embedded human lymphoma using NFKB1 antibody (KVA01469, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 μm.



Immunocytochemical staining of C2C12 cells with NFKB1 antibody (KVA01469, 1:1,000). Nuclei were stained blue with DAPI; NFKB1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 μm.



Flow cytometric analysis of NFKB1 expression in C2C12 cells using NFKB1 antibody (KVA01469, 1:2,000). Green, isotype control; red, NFKB1.