

Product Name: KD-Validated NFKB Inhibitor Alpha Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01159

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: 35.6kDa

Antigen Information

Gene Name	NFKBIA
Alternative Names	NFKBIA; I-kappa-B-alpha; NFKBI; NFKBIA; NF-kappaB inhibitor alpha; IKBA; IkappaBalpa; MAD3; RL/IF-1
Gene ID	4792.0
SwissProt ID	P25963
Immunogen	A synthesized peptide derived from human IKB alpha

Background

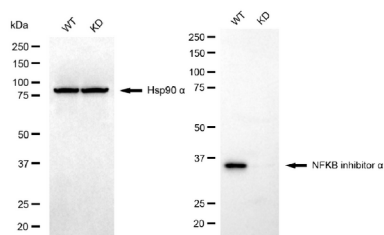
This gene encodes a member of the NF-kappa-B inhibitor family, which contain multiple ankrin repeat domains. The encoded protein interacts with REL dimers to inhibit NF-kappa-B/REL complexes which are involved in inflammatory responses. The

encoded protein moves between the cytoplasm and the nucleus via a nuclear localization signal and CRM1-mediated nuclear export. Mutations in this gene have been found in ectodermal dysplasia anhidrotic with T-cell immunodeficiency autosomal dominant disease. [provided by RefSeq, Aug 2011]

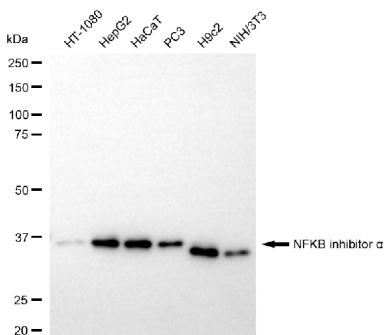
Research Area

Signal Transduction, Epigenetics and Nuclear Signaling, Cancer, Immunology, Neuroscience

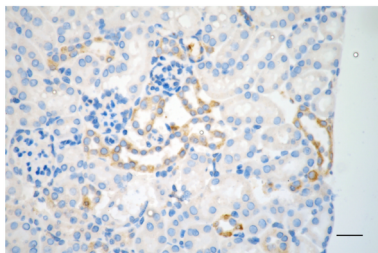
Image Data



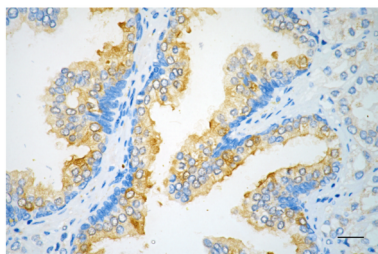
Western blotting analysis using NFKB inhibitor alpha antibody (KVA01159). NFKB inhibitor alpha expression in wild-type (WT) and NFKB inhibitor alpha (NFKBIA) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with NFKB inhibitor alpha antibody (KVA01159, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



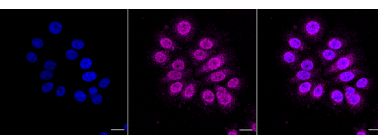
Western blotting analysis using NFKB inhibitor alpha antibody (KVA01159). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NFKB inhibitor alpha antibody (KVA01159, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



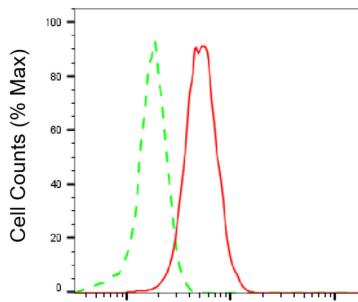
Immunohistochemistry was performed on paraffin-embedded mouse kidney using NFKB inhibitor alpha antibody (KVA01159, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunohistochemistry was performed on paraffin-embedded human prostatic adenocarcinoma using NFKB inhibitor alpha antibody (KVA01159, 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 HepG2 cells with NFKB inhibitor alpha antibody (KVA01159, 1:1,000). Nuclei were stained blue with DAPI; NFKB inhibitor alpha was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



NFKB inhibitor alpha-Alexa Fluor® 647

Flow cytometric analysis of NFKB inhibitor alpha expression in HepG2 cells using NFKB inhibitor alpha antibody (KVA01159, 1:2,000). Green, isotype control; red, NFKB inhibitor alpha.