

Product Name: KD-Validated IKK α Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01610**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
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 1:4,000-1:20,000; FC 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 84.6kDa

Antigen Information

Gene Name	CHUK CHUK; Component Of Inhibitor Of Nuclear Factor Kappa B Kinase Complex; IKK-Alpha; NFKB1A; IKK1; IKKA; Inhibitor Of Nuclear Factor Kappa-B Kinase Subunit Alpha; Conserved Helix-Loop-Helix Ubiquitous Kinase; IkBKA; TCF16; Transcription Factor 16; I-Kappa-B Kinase
Alternative Names	1; EC 2.7.11.10; IKK-1; Nuclear Factor NF-Kappa-B Inhibitor Kinase Alpha; Nuclear Factor NFkappaB Inhibitor Kinase Alpha; IkB Kinase Alpha Subunit; I-Kappa-B Kinase-Alpha; I-Kappa-B Kinase Alpha; I-Kappa-B Kinase; IkappaB Kinase; IKK-A Kinase; EC 2.7.11; TCF-16; IKBKA; IKK-A; BPS2
Gene ID	1147.0
SwissProt ID	O15111
Immunogen	A synthesized peptide derived from human IKK α

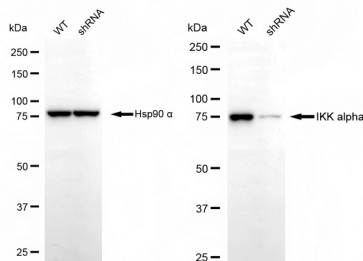
Background

This gene encodes a member of the serine/threonine protein kinase family. The encoded protein, a component of a cytokine-activated protein complex that is an inhibitor of the essential transcription factor NF-kappa-B complex, phosphorylates sites that trigger the degradation of the inhibitor via the ubiquitination pathway, thereby activating the transcription factor. [provided by RefSeq, Jul 2008]

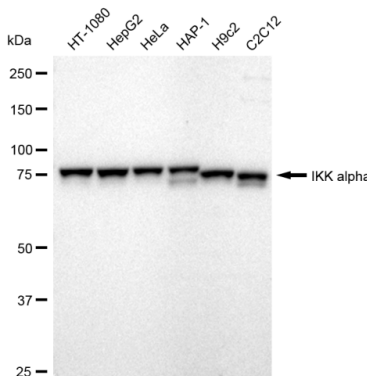
Research Area

Cell Biology,Signal Transduction,Cardiovascular,Immunology,Cancer

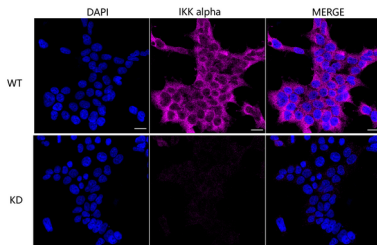
Image Data



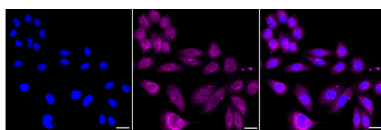
Western blotting analysis using IKK alpha antibody (KVA01610). IKK alpha expression in wild type (WT) and IKK alpha shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with IKK alpha antibody (KVA01610, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



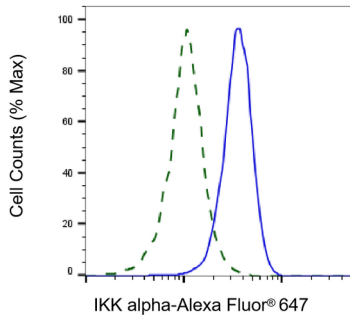
Western blotting analysis using IKK α antibody (KVA01610). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with IKK α antibody (KVA01610, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



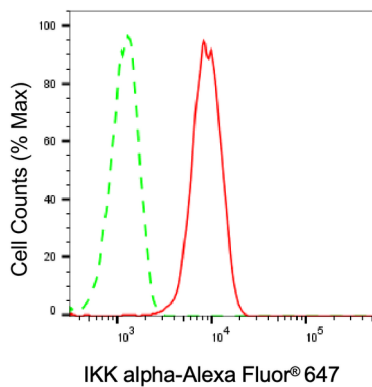
Immunocytochemical staining of HeLa cells using IKK alpha antibody (KVA01610, 1:1,000), Top panel: wild-type (WT); Bottom panel: IKK alpha shRNA knockdown (KD). Nuclei were stained blue with DAPI; IKK alpha was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with IKK alpha antibody (KVA01610, 1:1,000). Nuclei were stained blue with DAPI; IKK alpha 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.



Validation of IKK alpha knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with IKK alpha antibody (KVA01610, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of IKK alpha expression in HepG2 cells using IKK alpha antibody (KVA01610, 1:2,000). Green, isotype control; red, IKK alpha.