

KD-Validated Anti-NFKBIA Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI1915**Specification****KD-Validated Anti-NFKBIA Mouse Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P25963
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 36 kDa, Observed, 36 kDa
Gene Name	NFKBIA
Aliases	I-kappa-B-alpha; NFKBI; NFKBIA; NF-kappaB inhibitor alpha; IKBA; IkappaBalph; MAD3; RL/IF-1
Immunogen	Recombinant protein of human NFKBIA

KD-Validated Anti-NFKBIA Mouse Monoclonal Antibody - Additional Information

Gene ID	4792
Other Names	
NF-kappa-B inhibitor alpha, I-kappa-B-alpha, Ikb-alpha, IkappaBalph, Major histocompatibility complex enhancer-binding protein MAD3, NFKBIA, IKBA, MAD3, NFKBI	

KD-Validated Anti-NFKBIA Mouse Monoclonal Antibody - Protein Information**Name** NFKBIA**Synonyms** IKBA, MAD3, NFKBI**Function**

Inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL (RELA/p65 and NFKB1/p50) dimers in the cytoplasm by masking their nuclear localization signals (PubMed: [1493333](http://www.uniprot.org/citations/1493333), PubMed: [36651806](http://www.uniprot.org/citations/36651806), PubMed: [7479976](http://www.uniprot.org/citations/7479976)). On cellular stimulation by immune and pro-inflammatory responses, becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription (PubMed: [7479976](http://www.uniprot.org/citations/7479976), PubMed: [7628694](http://www.uniprot.org/citations/7628694), PubMed: [7796813](http://www.uniprot.org/citations/7796813), PubMed: [7878466](http://www.uniprot.org/citations/7878466)).

Cellular Location

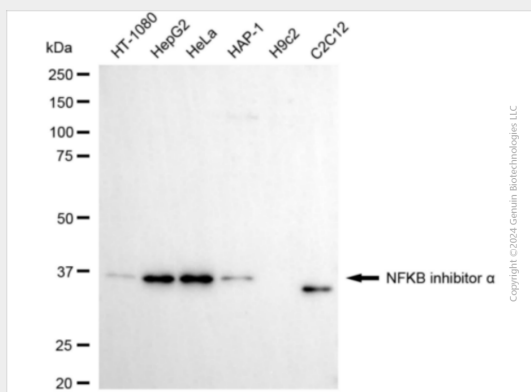
Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export.

KD-Validated Anti-NFKBIA Mouse Monoclonal Antibody - Protocols

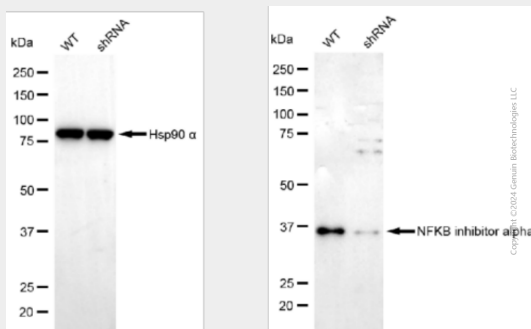
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

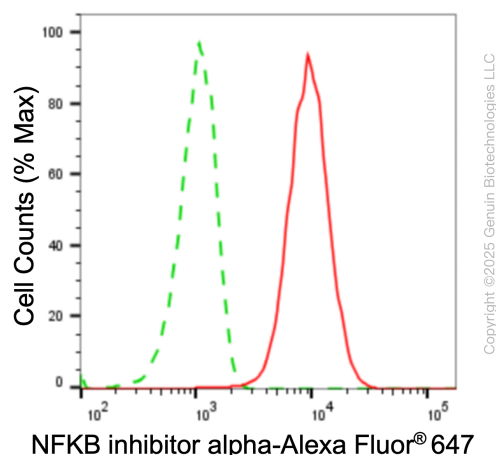
KD-Validated Anti-NFKBIA Mouse Monoclonal Antibody - Images



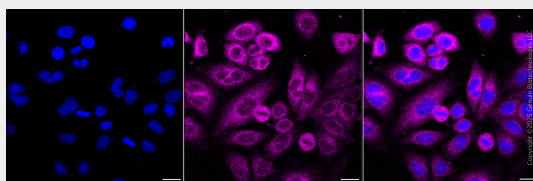
Western blotting analysis using anti-NFKB inhibitor alpha antibody (Cat#AGI1915). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-NFKB inhibitor alpha antibody (Cat#AGI1915, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-NFKB inhibitor alpha antibody (Cat#AGI1915). NFKB inhibitor alpha expression in wild type (WT) and NFKB inhibitor alpha (NFKBIA) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-NFKB inhibitor alpha antibody (Cat#AGI1915, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of NFKB inhibitor alpha expression in HepG2 cells using anti-NFKB inhibitor alpha antibody (Cat#AGI1915, 1:2,000). Green, isotype control; red, NFKB inhibitor alpha.



Immunocytochemical staining of HepG2 cells with anti-NFKB inhibitor alpha antibody (Cat#AGI1915, 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.