

**NFKBIA Antibody**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AW5063**

**Specification**

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**NFKBIA Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">P25963</a>
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	H=36;M=35 KDa
Isotype	IgG1, $\kappa$
Antigen Source	Human

**NFKBIA Antibody - Additional Information**

**Gene ID** 4792

**Antigen Region**  
53-240

**Other Names**

NFKBIA;IKBA; MAD3; NFKBI; NF-kappa-B inhibitor alpha; NF-kappa-B inhibitor alpha; I-kappa-B-alpha; NF-kappa-B inhibitor alpha; Major histocompatibility complex enhancer-binding protein MAD3

**Dilution**

WB~~1:1000

**Target/Specificity**

Purified His-tagged NFKBIA protein was used to produced this monoclonal antibody.

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NFKBIA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**NFKBIA 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:<a href="http://www.uniprot.org/citations/1493333" target="\_blank">1493333</a>, PubMed:<a href="http://www.uniprot.org/citations/36651806" target="\_blank">36651806</a>, PubMed:<a href="http://www.uniprot.org/citations/7479976" target="\_blank">7479976</a>). 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:<a href="http://www.uniprot.org/citations/7479976" target="\_blank">7479976</a>, PubMed:<a href="http://www.uniprot.org/citations/7628694" target="\_blank">7628694</a>, PubMed:<a href="http://www.uniprot.org/citations/7796813" target="\_blank">7796813</a>, PubMed:<a href="http://www.uniprot.org/citations/7878466" target="\_blank">7878466</a>).

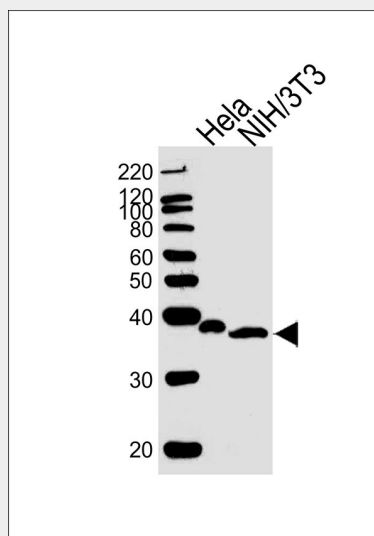
**Cellular Location**

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

**NFKBIA 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](#)

**NFKBIA Antibody - Images**

Western blot analysis of lysates from HeLa, mouse NIH/3T3 cell line (from left to right), using NFKBIA Antibody (Cat. #AW5063). AW5063 was diluted at 1:1000 at each lane. A goat anti-mouse

IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

### **NFKBIA Antibody - Background**

Inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL dimers in the cytoplasm through masking of their nuclear localization signals. On cellular stimulation by immune and proinflammatory responses, becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription.

### **NFKBIA Antibody - References**

- Huxford T., et al. Cell 95:759-770(1998).  
Cockman M.E., et al. Proc. Natl. Acad. Sci. U.S.A. 103:14767-14772(2006).  
Haskill S., et al. Cell 65:1281-1289(1991).  
Jungnickel B., et al. J. Exp. Med. 191:395-402(2000).  
Liu B., et al. Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.