

**NFKBIA antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI16195****Specification**

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**NFKBIA antibody - middle region - Product Information**

Application	WB
Primary Accession	<a href="#">P25963</a>
Other Accession	<a href="#">NM_020529</a> , <a href="#">NP_065390</a>
Reactivity	Human, Mouse, Rat, Pig, Sheep, Horse, Bovine, Dog
Predicted	Human, Mouse, Rat, Pig, Sheep, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35kDa KDa

**NFKBIA antibody - middle region - Additional Information****Gene ID** 4792**Alias Symbol** IKBA, MAD-3, NFKBI**Other Names**

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

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-NFKBIA antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

NFKBIA antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

**NFKBIA antibody - middle region - 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:&lt;a href="http://www.uniprot.org/citations/1493333" target="\_blank"&gt;1493333&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/36651806" target="\_blank"&gt;36651806&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/36651806" target="\_blank"&gt;36651806&lt;/a&gt;).

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

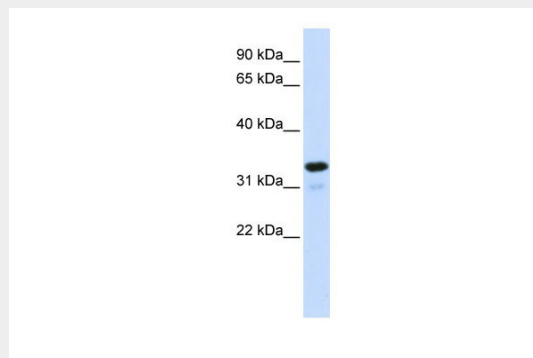
Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export.

### NFKBIA antibody - middle region - 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](#)

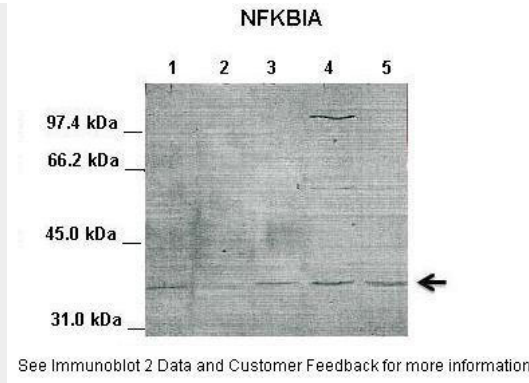
### NFKBIA antibody - middle region - Images



WB Suggested Anti-NFKBIA Antibody Titration: 0.2-1 µg/ml

ELISA Titer: 1:62500

Positive Control: 293T cell lysate



Lanes: 1. 100 ug mouse heart lysate 2. 100 ug mouse kidney lysate 3. 100 ug mouse lung lysate  
4. 100 ug mouse thymus lysate 5. 100 ug mouse spleen lysate

Primary Antibody Dilution: 1:1000

Secondary Antibody: Anti-rabbit-AP

Secondary Antibody Dilution: 1:10000

Gene Name: NFKBIA

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#### **NFKBIA antibody - middle region - 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 - middle region - References**

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.

Kalnina N., et al. Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.

Ota T., et al. Nat. Genet. 36:40-45(2004).