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NFKBIA antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI16195

Specification

NFKBIA antibody - middle region - Product Information

Application	**WB**
Primary Accession	P25963
Other Accession	NM_020529, NP_065390
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, IkB-alpha, IkappaBalpha, 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:1493333, PubMed:36651806, PubMed:<a

href="http://www.uniprot.org/citations/7479976" target="_blank">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, PubMed:7628694, PubMed:7796813, PubMed:7878466).

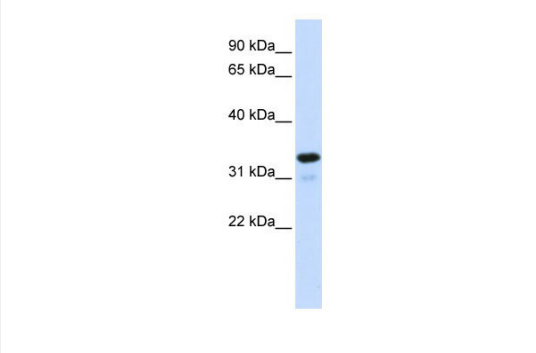
Cellular Location
Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export.

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 Cytomety
- 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

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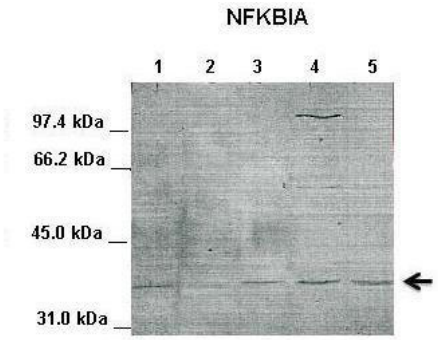

See Immunoblot 2 Data and Customer Feedback for more information

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
Submitted by: Andreia Carvalho, Instituto de Biologia Molecular e Celular, Universidade do Porto (IBMC-UP)/Organelle Biogenesis and Function (OBF) Group

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.
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).