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NFKBIA antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI16195

Product Information

Application	WB
Primary Accession	P25963
Other Accession	NM_020529, NP_065390
Reactivity	Human, Mouse, Rat, Pig, Dog, Horse, Bovine, Sheep
Predicted	Human, Mouse, Rat, Pig, Dog, Horse, Bovine, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35609

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.

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: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.

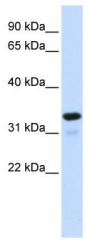
Background

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.

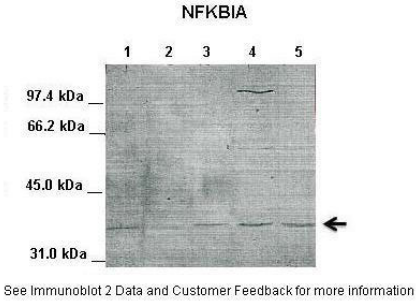
References

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).

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.