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# NFKBIA antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI16195

## Product Information

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| **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

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| **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

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| **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). |

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

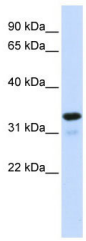
## Background

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.

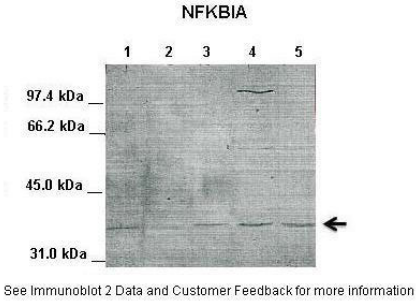
## References


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