

# IKB alpha (IKBA) Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP2506a

### **Product Information**

ApplicationWB, EPrimary AccessionP25963Other AccessionNP 065390

Reactivity Human, Rat, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB2574
Antigen Region 1-30

### **Additional Information**

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

**Target/Specificity** This IKB alpha (IKBA) antibody is generated from rabbits immunized with a

KLH conjugated synthetic peptide between 1-30 amino acids from human IKB

alpha (IKBA).

**Dilution** WB~~1:1000 E~~Use at an assay dependent concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation

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** IKB alpha (IKBA) Antibody is for research use only and not for use in

diagnostic or therapeutic procedures.

#### **Protein Information**

# **Background**

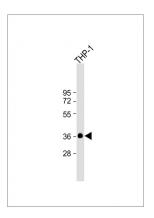
NFKB1 or NFKB2 is bound to REL, RELA, or RELB to form the NFKB complex. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA or NFKBIB), which inactivate NF-kappa-B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, or IKBKB) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B complex. Activated

NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime (where H is A, C, or T; R is an A or G purine; and Y is a C or T pyrimidine).

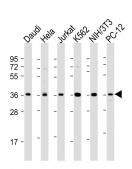
### References

Miskolci, V., et al., Arch. Biochem. Biophys. 417(1):44-52 (2003). Kim, Y.S., et al., J. Biol. Chem. 278(31):28462-28469 (2003). Parcellier, A., et al., Mol. Cell. Biol. 23(16):5790-5802 (2003). Takada, Y., et al., J. Biol. Chem. 278(26):24233-24241 (2003). Place, R.F., et al., J. Cell. Physiol. 195(3):470-478 (2003).

## **Images**



Anti-IKB alpha (IKBA) Antibody at 1:2000 dilution + THP-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 36 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes: Anti-Sumo-site. NFkB Antibody at 1:2000 dilution Lane 1: Daudi whole cell lysate Lane 2: Hela whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: K562 whole cell lysate Lane 5: NIH/3T3 whole cell lysate Lane 6: PC-12 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 36 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

### **Citations**

- A20 inhibits the release of inflammatory cytokines by suppressing the activation of the nuclear factor-kappa B pathway in osteoarthritic fibroblast-like synoviocytes.
- Nanoformulated paclitaxel and AZD9291 synergistically eradicate non-small-cell lung cancers in vivo.
- Roflumilast reverses polymicrobial sepsis-induced liver damage by inhibiting inflammation in mice.

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