

## Anti-IkB alpha/NFKBIA Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 36 kDa. Actual: 39 kDa.
Purification:	Protein A purified

### Applications

1. Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-IkB alpha Polyclonal Antibody, Unconjugated (TMAB-00928) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.

2. Blank control (blue line): Jurkat (blue).

Primary Antibody (green line): Rabbit Anti-IkB alpha antibody (TMAB-00928)

Dilution: 1 µg/10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC

Dilution: 1 µg/test.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min), then permeabilized with 90% ice-cold methanol for 30 min on ice. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2% BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature.

3. Sample:

Lane 1: HepG2 (Human) Cell Lysate at 30 µg

Lane 2: Hela (Human) Cell Lysate at 30 µg

Lane 3: Siha (Human) Cell Lysate at 30 µg

Lane 4: U251 (Human) Cell Lysate at 30 µg

Lane 5: Spleen (Mouse) Lysate at 40 µg

Lane 6: Thymus (Mouse) Lysate at 40 µg

Lane 7: Thymus (Rat) Lysate at 40 µg

Lane 8: LymphNode (Mouse) Lysate at 40 µg

Lane 9: LymphNode (Rat) Lysate at 40 µg

Primary: Anti-IkB alpha (TMAB-00928) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 39 kDa

Observed band size: 37 kDa

4. Blank control: Hela.

Primary Antibody (green line): Rabbit Anti-IkB alpha antibody (TMAB-00928)

Dilution: 1 µg/10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody: Goat anti-rabbit IgG-AF647

Dilution: 1 µg/test.

Verified Activity:

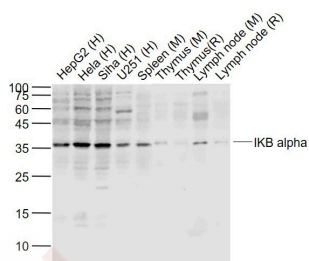
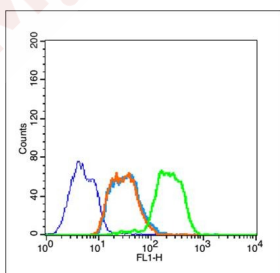
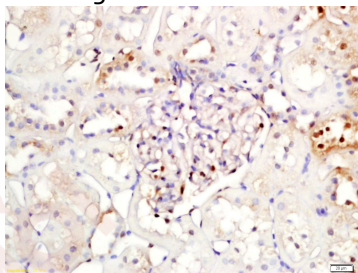
Protocol

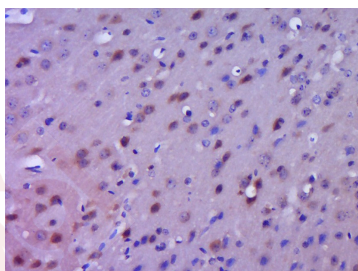
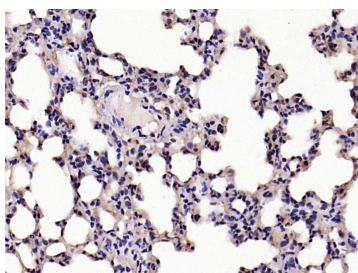
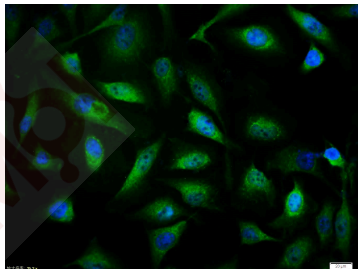
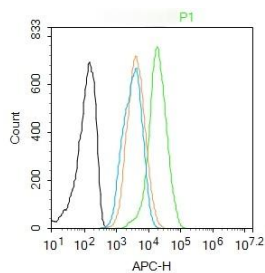
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

5. Tissue/cell: Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (IKB alpha) polyclonal Antibody, Unconjugated (TMAB-00928) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.

6. Paraformaldehyde-fixed, paraffin embedded (mouse lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (IKB alpha) Polyclonal Antibody, Unconjugated (TMAB-00928) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

7. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (IKB alpha) Polyclonal Antibody, Unconjugated (TMAB-00928) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.





Application: FCM, ICC/IF, IF, IHC-Fr, IHC-P, WB

Recommended FCM=1 µg/Test; ICC/IF=1:100-500; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:500-2000

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human NFKBIA

Antigen Species: Human

Gene ID: 4792

Uniprot ID: P25963

Synonyms: IKBA; nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha; nuclear factor of κ light polypeptide gene enhancer in B-cells inhibitor, alpha; nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, α; MAD-3; NFKBI; IκB α

Biology Area: NFκB pathway, NFκB pathway, TLR Signaling, NFκB Pathway

**Research Background**

This gene encodes a member of the NF-kappa-B inhibitor family, which contain multiple ankrin repeat domains. The encoded protein interacts with REL dimers to inhibit NF-kappa-B/REL complexes which are involved in inflammatory responses. The encoded protein moves between the cytoplasm and the nucleus via a nuclear localization signal and CRM1-mediated nuclear export. Mutations in this gene have been found in ectodermal dysplasia anhidrotic with T-cell immunodeficiency autosomal dominant disease. [provided by RefSeq, Aug 2011]

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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