

# Recombinant Human IκB-alpha/NFKBIA Protein

Catalog No.: RP00032 **Recombinant** **1 Publications**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	4792	P25963

### Tags

No tag

### Synonyms

IKBA; MAD-3;  
NFKBI;NFKBIA;MAD-3;NFKBI;IKB  
alpha;EDAID2; IKBA; NFKB inhibitor alpha

## Product Information

Source	Purification
<i>E. coli</i>	> 90% by SDS-PAGE.

### Endotoxin

&lt; 1.0 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Background

This protein is a member of the NF-kappa-B inhibitor family, which contain multiple ankrin repeat domains. The protein interacts with REL dimers to inhibit NF-kappa-B/REL complexes which are involved in inflammatory responses. The 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.

## Basic Information

### Description

Recombinant Human IκB-alpha/NFKBIA Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Phe2-Leu317) of human IκB-alpha (Accession #NP\_065390.1).

### Bio-Activity

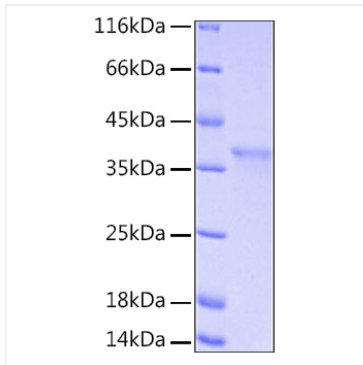
Measured by its binding ability in a functional ELISA. Immobilized Human IκB-alpha Protein at 2 μg/mL (100 μL/well) can bind IκBα Rabbit mAb with a linear range of 0.195-0.64 ng/mL.

### Storage

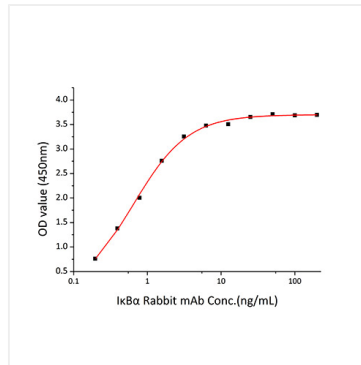
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human IκB-alpha/NFKBIA Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 38 kDa.



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