

# Recombinant Human IkB-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
E. coli ≥ 90 % as
determined by SDSPAGE.

Calculated MW Observed MW

35.48 kDa 38 kDa

#### **Endotoxin**

< 1 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## **Contact**

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## **Background**

This protein is a member of the NF-kappa-B inhibitor family, which contain multiple ankrin repeat domains. The protein is 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 IkB-alpha/NFKBIA Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Phe2-Leu317) of human IkB-alpha (Accession #NP 065390.1).

#### **Bio-Activity**

Measured by its binding ability in a functional ELISA. Immobilized Human IkB-alpha Protein at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind IkB $\alpha$  Rabbit mAb with a linear range of 0.195-0.64 ng/mL.

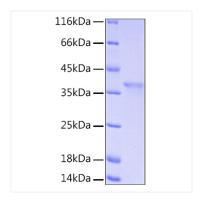
### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

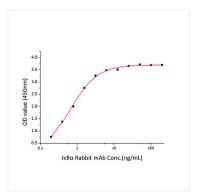
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## **Validation Data**



Recombinant Human IkB-alpha/NFKBIA Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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