

## Recombinant Human NFKBIA, GST-tagged

Cat. No. NFKBIA-1463H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human I $\kappa$ B $\alpha$ was expressed in <i>E. coli</i> cells using an N-terminal GST tag. MW = 61kDa.
<b>Species</b>	Human
<b>Source</b>	<i>E. coli</i>
<b>Description</b>	I $\kappa$ B $\alpha$ is an inhibitor of the NF $\kappa$ B complex and inactivates the NF $\kappa$ B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I $\kappa$ B protein by I $\kappa$ B kinases (IKKs) marks it for destruction via the ubiquitination pathway, thereby allowing the activation of the NF $\kappa$ B complex. Synthetic glucocorticoid such as dexamethasone display anti-inflammatory effects by inducing the increased synthesis of the I $\kappa$ B protein thereby inhibiting the activity of the NF $\kappa$ B complex. Overexpression of the I $\kappa$ B $\alpha$ gene in fibroblasts leads to inhibition of production of IL-6, TNF receptor, MMP-1, MMP-3 and MMP-13.
<b>Sequence</b>	Full-length.
<b>Applications</b>	Kinase Assay, Western Blot.
<b>Storage And Stability</b>	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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## GENE INFORMATION

<b>Gene Name</b>	NFKBIA nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha [ Homo sapiens ]
<b>Synonyms</b>	NFKBIA; nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha; IKBA; MAD-3; NFKBI; IkappaBalpha; NF-kappa-B inhibitor alpha; I-kappa-B-alpha; Major histocompatibility complex enhancer-binding protein MAD3; nuclear factor of kappa light chain gene enhancer in B-cells
<b>Gene ID</b>	4792
<b>mRNA Refseq</b>	NM_020529
<b>Protein Refseq</b>	NP_065390
<b>MIM</b>	164008
<b>UniProt ID</b>	P25963
<b>Chromosome Location</b>	14q13
<b>Pathway</b>	Adipocytokine signaling pathway; Apoptosis; B cell receptor signaling pathway; Chemokine signaling pathway; Chronic myeloid leukemia; Epithelial cell signaling in Helicobacter pylori infection; NOD-like receptor signaling pathway; Neurotrophin signaling pathway; Pathways in cancer; Prostate cancer; RIG-I-like receptor signaling pathway; Small cell lung cancer; T cell receptor signaling pathway; Toll-like receptor signaling pathway; Signaling in Immune system; Signalling by NGF
<b>Function</b>	NF-kappaB binding; NF-kappaB binding; heat shock protein binding; identical protein

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binding; nuclear localization sequence binding; protein complex binding; ubiquitin protein ligase binding

**Crystallographic  
structure (PDB 1NFI)  
of IκBα**

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