

Recombinant Human NFKBIA, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant full-length human I κ B α was expressed in <i>E. coli</i> cells using an N-terminal GST tag. MW = 61kDa.
Species	Human
Source	<i>E. coli</i>
Description	I κ B α is an inhibitor of the NF κ B complex and inactivates the NF κ B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I κ B protein by I κ B kinases (IKKs) marks it for destruction via the ubiquitination pathway, thereby allowing the activation of the NF κ B complex. Synthetic glucocorticoid such as dexamethasone display anti-inflammatory effects by inducing the increased synthesis of the I κ B protein thereby inhibiting the activity of the NF κ B complex. Overexpression of the I κ B α gene in fibroblasts leads to inhibition of production of IL-6, TNF receptor, MMP-1, MMP-3 and MMP-13.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	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

Gene Name	NFKBIA nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha [Homo sapiens]
Synonyms	NFKBIA; nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha; IKBA; MAD-3; NFKBI; IkappaBalph; 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
Gene ID	4792
mRNA Refseq	NM_020529
Protein Refseq	NP_065390
MIM	164008
UniProt ID	P25963
Chromosome Location	14q13
Pathway	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
Function	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 I κ B α**

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