

IkBA recombinant protein

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CATALOG # AAA72909	HOST E Coli	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

IkBA; IkBA recombinant protein; IKBA; NFKBIA; MAD-3; NFKBI; IkappaBalph Protein; IkBa Protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>90%
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.2ug/ul (varies by lot)
Sequence Positions	1-175
Sequence Length	1579
Applicable Applications for IkBA recombinant protein	WB (Western Blot), Kinase Assay
Type	Recombinant Fusion Protein
Species	Human
Tag Information	GST tag
Expression System	E.coli
Source Note	Recombinant full-length human IkappaBalph was expressed in E. coli cells
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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. Shipping: Dry Ice.

IMAGES



SDS-PAGE

The purity of 1kBalph was determined to be >90% by densitometry.

ADDITIONAL INFORMATION

Related Product Information for IkBA recombinant protein	Recombinant human IkBA (1-175) was expressed in E. coli cells using an N-terminal GST tag. Scientific Background: IκB is an inhibitor of the NFκB complex and inactivates the NFκB by trapping it in the cytoplasm (1). Phosphorylation of serine residues on the IκB protein by IκB kinases (IKKs) marks it for destruction via the ubiquitination pathway, thereby allowing the activation of the NFκB complex. Synthetic glucocorticoid such as dexamethasone display anti-inflammatory effects by inducing the increased synthesis of the IκB protein thereby inhibiting the activity of the NFκB complex. Overexpression of the IκB gene in fibroblasts leads to inhibition of production of IL-6, TNF receptor, MMP-1, MMP-3 and MMP-13 (2). Product Description: Recombinant human 1KappaBalpha(1-175) was expressed in E.coli cells using an N-terminal GST tag.
Product Categories/Family for IkBA recombinant protein	Transcription Proteins ; Signaling Proteins - Transcription Proteins
References	1. Auphan, N. Et al: Immunosuppression by glucocorticoids: inhibition of NF-kappa-B activity through induction of I-kappa-B synthesis. Science 270: 286-290, 1995. 2. Bondeson, J. Et al: Adenoviral gene transfer of the endogenous inhibitor IkappaBalpha into human osteoarthritis synovial fibroblasts demonstrates that several matrix metalloproteinases and aggrecanases are nuclear factor-kappaB-dependent. J Rheumatol. 2007 Mar;34(3):523-33.

NCBI AND UNIPROT INFORMATION

NCBI GI #	168693660
NCBI GeneID	4792
NCBI Accession #	NP_065390.1
NCBI GenBank Nucleotide #	NM_020529
Molecular Weight	~46 kDa
NCBI Official Full Name	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha (NFKBIA), mRNA
NCBI Official Synonym Full Names	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
NCBI Official Symbol	NFKBIA
NCBI Official Synonym Symbols	IKBA; MAD-3; NFKBI
NCBI Protein Information	NF-kappa-B inhibitor alpha; ikB-alpha; IkappaBalpha; I-kappa-B-alpha; nuclear factor of kappa light chain gene enhancer in B-cells; major histocompatibility complex enhancer-binding protein MAD3
UniProt Protein Name	NF-kappa-B inhibitor alpha
UniProt Gene Name	NFKBIA
UniProt Synonym Gene Names	IKBA; MAD3; NFKBI; IkB-alpha
UniProt Entry Name	IKBA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/nfkbia-recombinant-protein-e-coli-wb-western-blot-kinase-assay/72909>