

Datasheet for ABIN6700324 **NFKBIA Protein (GST tag)**



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Overview

Quantity:	20 µg
Target:	NFKBIA
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NFKBIA protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	I kappaB alpha recombinant protein-GST fusion protein
Purification:	Recombinant human IκB-alpha (1-175) was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >90% by densitometry.
Purity:	>90%

Target Details

Target:	NFKBIA
Alternative Name:	NFKBIA (NFKBIA Products)
Background:	<p>Synonyms: IKBA, NFKBIA, MAD-3, NFKBI, NF-kappa-B inhibitor alpha, I-kappa-B-alpha, IκB-alpha, IkappaBalpa, Major histocompatibility complex enhancer-binding protein MAD3</p> <p>Background: IκB-alpha is an inhibitor of the NFκB complex and inactivates the NFκB by trapping</p>

Target Details

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-alpha gene in fibroblasts leads to inhibition of production of IL-6, TNF receptor, MMP-1, MMP-3 and MMP-13 (2). IκB-alpha Protein is ideal for investigators involved in, Signaling Proteins, Transcription Proteins, AKT/PKB Pathway, Apoptosis/Autophagy, Inflammation, and p38 Pathway research.

NCBI Accession:	NM_020529
Pathways:	NF-kappaB Signaling , TCR Signaling , TLR Signaling , Fc-epsilon Receptor Signaling Pathway , Activation of Innate immune Response , Cellular Response to Molecule of Bacterial Origin , Maintenance of Protein Location , Hepatitis C , Protein targeting to Nucleus , Toll-Like Receptors Cascades , BCR Signaling

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Other: Kinase Assay-User Optimized Application_Note: IκB-alpha Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~46 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.2 µg/µL
Buffer:	IκB-alpha Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Storage:	-80 °C
Storage Comment:	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.
Expiry Date:	12 months