Datasheet for ABIN6700322

# NFKBIA Protein (GST tag)

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## Overview

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| 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

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| Purpose: | I kappaB alpha recombinant protein-GST fusion protein |
| Purification: | Recombinant full-length human IkB-alpha was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >85% by densitometry. |
| Purity: | >85% |

## Target Details

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| Target: | NFKBIA |
| Alternative Name: | NFKBIA (NFKBIA Products) |
| Background: | Synonyms: IKBA, NFKBIA, MAD-3, NFKBI, NF-kappa-B inhibitor alpha, I-kappa-B-alpha, IkB-alpha, IkappaBalpha, Major histocompatibility complex enhancer-binding protein MAD3<br>Background: IkB-alpha is an inhibitor of the NFkB complex and inactivates the NFkB by trapping |

## Target Details

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| | it in the cytoplasm (1). Phosphorylation of serine residues on the IkB protein by IkB kinases (IKKs) marks it for destruction via the ubiquitination pathway, thereby allowing the activation of the NFkB complex. Synthetic glucocorticoid such as dexamethasone display anti-inflammatory effects by inducing the increased synthesis of the IkB protein thereby inhibiting the activity of the NFkB complex. Overexpression of the IkB-alpha gene in fibroblasts leads to inhibition of production of IL-6, TNF receptor, MMP-1, MMP-3 and MMP-13 (2). IkB-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

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| Application Notes: | Western_Blot_Dilution: User Optimized<br>Other: Kinase Assay-User Optimized<br>Application_Note: IkB-alpha Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~61 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | 0.2 µg/µL |
| Buffer: | IkB-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 |