

Product Information

I κ B β , GST-tagged, human recombinant, expressed in *E. coli* cells

Catalog Number **SRP5196**
Storage Temperature -70°C

Synonyms: NFKBIB, TRIP9

Product Description

I κ B β is part of the NF κ B complex and it inactivates NF κ B complex by binding to it and trapping it in the cytoplasm. Phosphorylation of serine residues on I κ B β mediated by I κ B kinases leads to its destruction via the ubiquitination pathway, thereby, allowing activation of the NF κ B complex which translocates into the nucleus and binds DNA at kappa-B-binding motifs.¹ The PEST domain of I κ B β can interact with two proteins KBRAS1 and KBRAS2, and this interaction can decrease the rate of degradation I κ B β . I κ B β has been shown to participate in multiple signaling pathways including adipocytokine signaling pathway, B cell receptor signaling pathway, T cell receptor signaling pathway, and hypoxia.²

Recombinant, full-length, human I κ B β was expressed in *E. coli* cells using an N-terminal GST tag. The gene accession number is NM_002503. Recombinant protein 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, and 25% glycerol.

Molecular mass: ~56 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

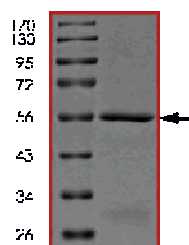
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Fenwick, C. et al., A subclass of Ras proteins that regulate the degradation of I-kappa-B. *Science*, **287**, 869-873 (2000).
2. Hoffmann, A. et al., The I-kappa-B-NF-kappa-B signaling module: temporal control and selective gene activation. *Science*, **298**, 1241-1245 (2002)

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