

Recombinant Human Inhibitor Of Kappa Light Polypeptide Gene Enhancer In B-Cells, Kinase Beta, GST-tagged

Cat. No. IKBKB-1027H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length recombinant human IKBKB was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	IKBKB is a serine/threonine protein kinase that phosphorylates the I-kappa-B protein which is an inhibitor of the transcription factor NF-kappa-B complex. Phosphorylation of I-kappa-B protein triggers the degradation of the inhibitor via the ubiquitination pathway, thereby activating NF-kappa-B complex. The activity of IKBKB is stimulated by TNF and IL1 and IKBKB forms a heterodimer that interacts with NIK. Overexpression of catalytically inactive IKBKB blocks cytokine-induced NF-kappa-B activation. Aspirin and sodium salicylate can specifically inhibit IKBKB activity in vitro and in vivo by binding to IKBKB to reduce ATP binding.
Applications	Kinase Assay; Western Blot
Molecular Weight	105 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0,25 mM DTT, 0.1 mM PMSF, 25% glycerol.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Specific Activity	12 mmol/min/mg
Purity	> 95 %
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	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.
Pathways	Acute myeloid leukemia; Adipocytokine signaling pathway; Apoptosis; B cell receptor signaling pathway; Chagas disease; Neurotrophin signaling pathway; Pancreatic cancer; Pathways in cancer; Prostate cancer; RIG-I-like receptor signaling pathway; Shigellosis; Small cell lung cancer; T cell receptor signaling pathway; Toll-like receptor signaling pathway; Type II diabetes mellitus
Full Length	Full L.

GENE INFORMATION

Gene Name	IKBKB inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta [Homo sapiens]
Official Symbol	IKBKB
Synonyms	IKBKB; inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta; IKK2; IKKB; NFKBIKB; FLJ33771; FLJ36218; FLJ38368; FLJ40509; IKK-beta; MGC131801; inhibitor of nuclear factor kappa-B kinase subunit beta; IKK-B; I-kappa-B kinase 2; I-kappa-B-kinase beta; nuclear factor NF-kappa-B inhibitor kinase beta;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	EC 2.7.11.10
Gene ID	3551
mRNA Refseq	NM_001190720
Protein Refseq	NP_001177649
MIM	603258
UniProt ID	O14920
Chromosome Location	8p11.2
Function	ATP binding; IkappaB kinase activity; identical protein binding; nucleotide binding; protein binding; protein heterodimerization activity; transcription activator activity; transferase activity
Rendering based on PDB 3BRT.	