

Recombinant Human IKBKB, His-S

Cat. No. IKBKB-760H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human IKBKB (amino acids 1-756) was fused at the N-terminus with His•Tag and S•Tag sequences and expressed in <i>S.frugiperda</i> insect cells. MW = 88 kDa.
Species	Human
Source	<i>S.frugiperda</i>
ProteinLength	1-756 a.a.
Description	IKK β is the principal kinase responsible for phosphorylating I κ B α , the regulatory subunit of NF- κ B transcription factor. Phosphorylation of I κ B α leads to its ubiquitination and proteasome degradation, which allows results in the rapid translocation of NF- κ B to the nucleus and transcriptional activation of NF- κ B-dependent genes.
Purity	≥80% by SDS-PAGE.
Form	Liquid. In 50 mM L-Arg, 50 mM L-Glu, 50 mM NaCl, 20 mM HEPES, 2 mM DTT, 1 mM EDTA, 50% glycerol, 0.03% BRIJ 35 Detergent, pH 7.5.
Specific Activity	≥50 units/mg protein.
Unit Definition	One unit is defined as the amount of enzyme that will convert 1 nmol ATP to ADP per min per mg protein at 37°C.

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Storage ≤ -70°C. Avoid freeze/thaw.

GENE INFORMATION

Gene Name [IKBKB inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta \[Homo sapiens \]](#)

Synonyms IKBKB; inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta; IKK2; IKKB; NFKB1KB; 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; 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

Pathway Acute myeloid leukemia; Adipocytokine signaling pathway; Apoptosis; B cell receptor signaling pathway; Chagas disease; Chemokine signaling pathway; Chronic myeloid leukemia; Cytosolic DNA-sensing pathway; Epithelial cell signaling in Helicobacter pylori infection; Insulin signaling pathway; MAPK signaling pathway; NOD-like receptor signaling pathway; Neurotrophin signaling pathway; Pancreatic cancer; Pathways in cancer; Prostate cancer; RIG-I-like receptor signaling pathway;

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Shigellosis; Small cell lung cancer; T cell receptor signaling pathway; Toll-like receptor signaling pathway; Type II diabetes mellitus

Function

ATP binding; I kappa B kinase activity; identical protein binding; nucleotide binding; protein binding; protein heterodimerization activity; transcription activator activity; transferase activity

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