

Bioactive

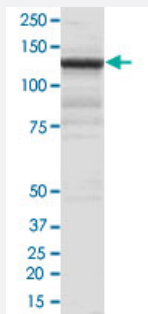
Full-Length

IKBKB (Human) Recombinant Protein

Catalog # P4703

Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

□

Specification

Product Description

Human IKBKB (NM_001556, 1 a.a. - 756 a.a.) full-length recombinant protein with GST-His tag expressed in Sf9 cells.

Sequence	MSWSPSLTTQTCTGAWEMKERLGTGGFGNVIRWHNQETGEQIAIKQCRQELSPRNRERWCLEIQI MRRLTHPNVVAARDVPEGMQNLPNDLPLLAMEYCQGGDLRKYLNQFENCCGLREGAILTLLSDI ASALRYLHENRIIHRDLKPENIVLQQGEQRLIHKIIDLGAKELDQGSLSCTSFVGTLLQYLAPELLEQQK YTVTVDYWSFGTLAFECITGFRPFLPNWQPVQWHSKVRQKSEVDIVSEDLNGTVKFSSSLPYPN NLNSVLAERLEKWLQLMLMWHPRQRGTDPYGPNGCFKALDDILNLKLVHILNMVTGTIHTYPVTE DESLQSLKARIQQDTGIPEEDQELLQEAGLALIPDKPATQCISDGKLNEGHTLMDLVFLFDNSKIT YETQISPRQPESVSCILQEPKRNLAFFQLRKVWGQVWHSIQTLKEDCNRLQQGQRAAMMNLRL NNSCLSKMKNSMASMSQQLKAKLDFFKTSIQIDLEKYSEQTEFGITSDKLLLAWREMEQAVELCG RENEVKLLVERMMALQTDIVDLQRSPMGRKQGGTLDDEEQARELYRRLREKPRDQRTEGDSQ EMVRLLLQAIQSFEKKVRVIYTQLSKTVVCKQKALELLPKVEEVVSLMNEDEKTVVRLQEKRQKE LWNLLKIACSKVRGPVSGSPDSMNASRLSQPGQLMSQPSTASNSLPEPAKKSEELVAEAHNLR TLLNAIQDTVREQDQSFTVTACALDWSWLQTEEEEHSCLEQAS
Host	insect
Theoretical MW (kDa)	120.201
Form	Liquid
Preparation Method	Insect cell (Sf9) expression system
Purification	Immobilized metal affinity chromatography
Concentration	0.695 ug/uL
Activity	2 pmol/ug x min
Quality Control Testing	2 ug/lane SDS-PAGE Stained with Coomassie Blue
Storage Buffer	In 50 mM Hepes, 100 mM NaCl, pH 7.5. (5 mM DTT, 20% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — IKBKB

Entrez GeneID [3551](#)

Protein Accession#	NM_001556
Gene Name	IKBKB
Gene Alias	FLJ40509, IKK-beta, IKK2, IKKB, MGC131801, NFKBIKB
Gene Description	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
Omim ID	603258
Gene Ontology	Hyperlink
Gene Summary	NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA (MIM 164014), or RELB (MIM 604758) to form the NFKB complex. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA, MIM 164008, or NFKBIB, MIM 604495), which inactivate NF-kappa-B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, MIM 600664, or IKBKB) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B complex. Activated NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime (where H is A, C, or T; R is an A or G purine; and Y is a C or T pyrimidine).[supplied by OMIM]
Other Designations	inhibitor of nuclear factor kappa B kinase beta subunit nuclear factor NF-kappa-B inhibitor kinase beta

Pathway

- [Acute myeloid leukemia](#)
- [Adipocytokine signaling pathway](#)
- [Apoptosis](#)
- [B cell receptor signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Insulin signaling pathway](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)

- [Prostate cancer](#)
- [Small cell lung cancer](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)
- [Type II diabetes mellitus](#)

Disease

- [Arthritis](#)
- [Asthma](#)
- [Bronchiolitis](#)
- [Colonic Neoplasms](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Infant](#)
- [Inflammation](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)
- [Rectal Neoplasms](#)
- [Respiratory Syncytial Virus Infections](#)
- [Thyroid Neoplasms](#)

- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)