

Active Recombinant Full Length Human IKBKB Protein, C-Flag-tagged

Cat. No. IKBKB-421HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human IKBKB Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene phosphorylates the inhibitor in the inhibitor/NF-kappa-B complex, causing dissociation of the inhibitor and activation of NF-kappa-B. The encoded protein itself is found in a complex of proteins. Several transcript variants, some protein-coding and some not, have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Binding assay
Molecular Mass	86.4 kDa
AA Sequence	MSWSPSLTTQTCGAWEMKERLGTGGFGNVIRWHNQETGEQIAIKQCRQELSPRNR ERWCLEIQIMRRLTH PNVVAARDVPEGMQNLPNDLPLLAMEYCCGGDLRKYLNQ FENCCGLREGAILTLLSDIASALRYLHENR IIHRDLKPENIVLQQGEQRLIHKIIDLGYA KELDQGSLSCTSFVGTLLQYLAPELLEQQKYTVTVDYWSFGT LAFECITGFRPFLPNW QPVQWHSKVRQKSEVDIVSEDLNGTVKFSSSLPYPNNLNSVLAERLEKWLQLM L MWHPRQRGTDPTYGPNGCFKALDDILNLKLVHILNMVTGTIHTYPTVEDESLQSLKA

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RIQQDTGIPEED QELLQEAGLALIPDKPATQCISDGKLNIGHTLDMDLVFLFDNSKIT
 YETQISPRPQPESVSCILQEPKRN LAFFQLRKVWGQVWHSIQTLKEDCNRLQQGQ
 RAAMMNLLRNNSCLSKMKNSMASMSQQLKAKLDFFKTSI QIDLEKYSEQTEFGITS
 DKLLLAWREMEQAVELCGRENEVKLLVERMMALQTDIVDLQRSPMGRKQGGTL DD
 LEEQARELYRRLREKPRDQRTEGDSQEMVRLLLQAIQSFEKKVRVIYTQLSKTVVCK
 QKALELLPKVE EVVSLMNEDEKTVVRLQEKRQKELWNLLKIACSKVRGPVSGSPDS
 MNASRLSQPGQLMSQPSTASNSLPE
 PAKKSEELVAEAHNLCITLLENAIQDQTVREQDQSFTALDWSWLQTEEEEHSCLEQAS
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase, Transcription Factors
Protein Pathways	Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, Insulin signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, 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 nuclear factor kappa B kinase subunit beta [Homo sapiens (human)]

Official Symbol IKBKB

Synonyms IKK2; IKKB; IMD15; IMD15A; IMD15B; NFKBIKB; IKK-beta

Gene ID 3551

mRNA Refseq NM_001556.3

Protein Refseq NP_001547.1

MIM 603258

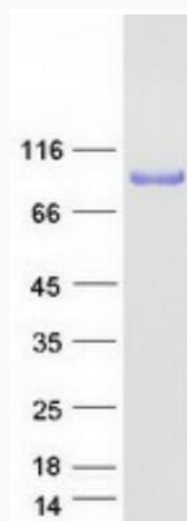
UniProt ID O14920

GST-NEMO (15 nM), preincubated with the inhibitor [SR12343] at indicated concentrations, was incubated with IKKbeta-FLAG for 30min at 30 centigrade and isolated using glutathione agarose. The levels of IKKbeta-FLAG binding to GST-NEMO were determined by Western blot analysis with GSTNEMO as a loading control.

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Coomassie blue staining of purified IKBKB protein.

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