

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

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human IKBKB Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | 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.                                         |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                      |
| <b>Bio-activity</b>     | Binding assay                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 86.4 kDa                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MSWSPSLTTQTCGAWEMKERLGTGGFGNVIRWHNQETGEQIAIKQCRQELSPRNR<br>ERWCLEIQIMRRLTH PNVVAARDVPEGMQNLPNDLPLLAMEYCCGGDLRKYLNQ<br>FENCCGLREGAILTLLSDIASALRYLHENR IIHRDLKPENIVLQQGEQRLIHKIIDLGYA<br>KELDQGSLSCTSFVGTLLQYLAPELLEQQKYTVTVDYWSFGT LAFECITGFRPFLPNW<br>QPVQWHSKVRQKSEVDIVSEDLNGTVKFSSSLPYPNNLNSVLAERLEKWLQLM L<br>MWHPRQRGTDPTYGPNGCFKALDDILNLKLVHILNMVTGTIHTYPTVEDESLQSLKA |

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

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Families</b> | Druggable Genome, Protein Kinase, Transcription Factors                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Pathways</b> | 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

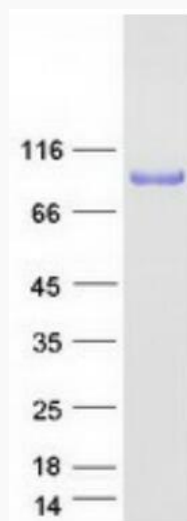
**UniProt ID** O14920

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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