

## Product datasheet for **TP319154**

### IKK beta (IKBKB) (NM\_001556) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta (IKBKB), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC219154 representing NM_001556 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MSWSPSLTTQTCGAWEMKERLGTGGFGNVIRWHNQETGEQIAIKQCRQELSPNRERWCLEIQIMRRLTH PNVVAARDVPEGMQNLAPNDLPLLAMEYCGGDLRKYLNQFENCCGLREGAILTLLSDIASALRYLHNR IIHRDLKPENIVLQQGEQRLIHKIIDLGYAKELDQGSLSCTSVGTLQYLAPELLEQQKYTVTVDYWSFGT LAFECITGRFPFLPNWQPVQWHSKVRQKSEVDIVVSEDLNGTVKFSSSLPYPNNLNSVLAERLEKWLQLM LMWHPRQRGTDPTYGPNCGFKALDDILNLKLVHILNMVTGTIHTYPVTEDESLQSLKARIQQDTGIPEED QELLQEAGLALIPDKPATQCISDGKLNEGHTLMDLVFLFDNSKITYETQISPRQPESVSCILQEPKRN LAFFQLRKVWGQVWHSIQTLKEDCNRLQQGQRAAMMNLNRNNSCLSKMKNSMASMSQQLKAKLDDFFKTSI QIDLEKYSEQTEFGITSDKLLAWREMEQAVELCGRENEVKLLVERMMALQTDIVDLQRSPMGRKQGGTL DDLEEQARELYRRLREKPRDQRTEGDSQEMVRLLLQAIQSFEEKVRIYVITQLSKTWCKQKALELLPKVE EVSMLMNEDEKTVVRLQEKRQKELWNLKIACSKVRGPVSGSPDSMNASRLSQPGQLMSQPSTASNSLPE PAKKEELVAEAHNLCTLLENAIQDTVREQDQSFTALDWSWLQTEEEEHSCLEQAS</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	86.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Binding assay (PMID: <a href="https://pubmed.ncbi.nlm.nih.gov/29889904/">29889904</a> )
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_001547](#)

**Locus ID:** 3551

**UniProt ID:** [O14920](#)

**RefSeq Size:** 3916

**Cytogenetics:** 8p11.21

**RefSeq ORF:** 2268

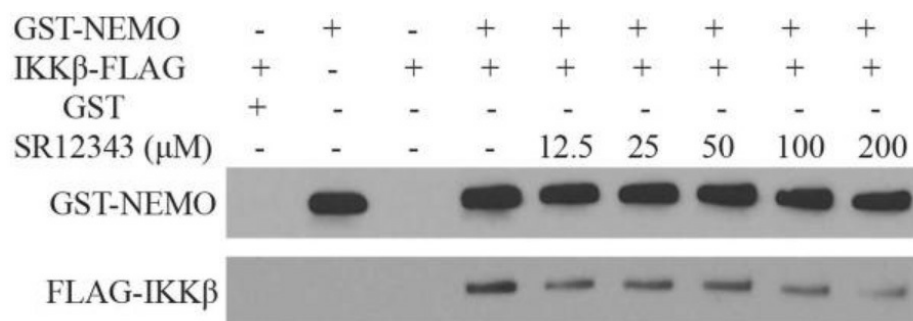
**Synonyms:** IKK-beta; IKK2; IKKB; IMD15; IMD15A; IMD15B; NFKBIKB

**Summary:** 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. [provided by RefSeq, Sep 2011]

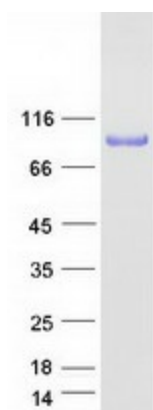
**Protein Families:** Druggable Genome, Protein Kinase, Transcription Factors

**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

**Product images:**



GST-NEMO (15 nM), preincubated with the inhibitor [SR12343] at indicated concentrations, was incubated with IKKbeta-FLAG (15 nM, OriGene TP319154) for 30min at 30°C and isolated using glutathione agarose. The levels of IKKbeta-FLAG binding to GST-NEMO were determined by Western blot analysis with GST-NEMO as a loading control. Figure cited from PLoS Biol, PMID: 29889904



Coomassie blue staining of purified IKKKB protein (Cat# TP319154). The protein was produced from HEK293T cells transfected with IKKKB cDNA clone (Cat# [RC219154]) using MegaTran 2.0 (Cat# [TT210002]).