

Product datasheet for **TP319154M**

IKK beta (IKBKB) (NM_001556) Human Recombinant Protein

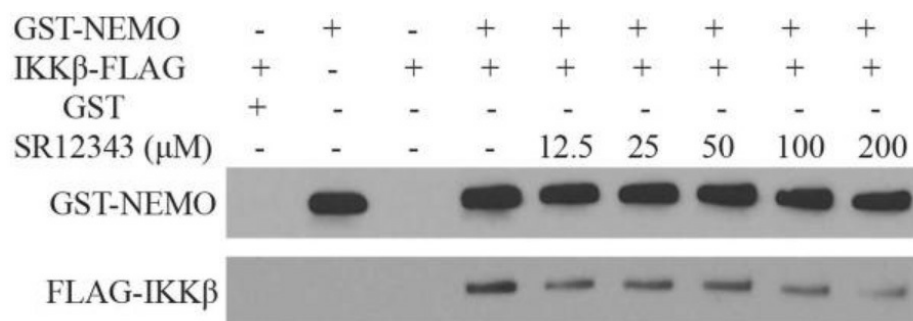
Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta (IKBKB), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC219154 representing NM_001556 Red =Cloning site Green =Tags(s)
	MSWSPSLTTQTCGAWEMKERLGTGGFGNVIRWHNQETGEQIAIKQCRQELSPNRERWCLEIQIMRRLTH PNVVAARDVPEGMQNLAPNDLPLLAMEYCGGDLRKYLNQFENCCGLREGAILTLLSDIASALRYLHENR IIHRDLKPENIVLQQGEQRLIHKIIDLGYAKELDQGSLSCTSVGTLQYLAPELLEQQKYTVTVDYWSFGT LAFECITGRFPFLPNWQPVQWHSKVRQKSEVDIVVSEDLNGTVKFSSSLPYPNNLNSVLAERLEKWLQLM LMWHPRQRGTDPTYGPNGCFKALDDILNLKLVHILNMVTGTIHTYPVTEDESLQSLKARIQQDTGIPEED QELLQEAGLALIPDKPATQCISDGKLNEGHTLMDLVFLFDNSKITYETQISPRQPESVSCILQEPKRN LAFFQLRKVWGQVWHSIQTLKEDCNRLQQGQRAAMMNLNRNNSCLSKMKNSMASMSQQLKAKLDFFKTSI QIDLEKYSEQTEFGITSDKLLAWREMEQAVELGRENEVKLLVERMMALQTDIVDLQRSPMGRKQGGTL DDLEEQARELYRRLREKPRDQRTEGDSQEMVRLLLQAIQSFEEKVRIYVYQLSKTWVCKQKALELLPKVE EVSMLMNEDEKTVVRLQEKRQKELWNLKIACSKVRGPVSGSPDSMNASRLSQPGQLMSQPSTASNSLPE PAKKEELVAEAHNLCTLLENAIQDTVREQDQSFTALDWSWLQTEEEEHSCLEQAS
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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: 29889904)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

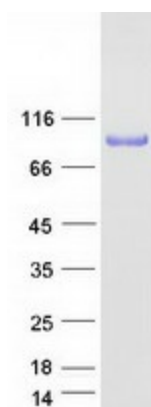


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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_001547</u>
Locus ID:	3551
UniProt ID:	<u>O14920</u>
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 IKBKB protein (Cat# [TP319154]). The protein was produced from HEK293T cells transfected with IKBKB cDNA clone (Cat# [RC219154]) using MegaTran 2.0 (Cat# [TT210002]).