

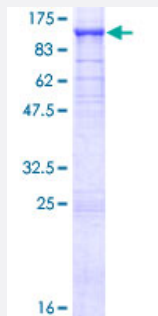
Full-Length

TBK1 (Human) Recombinant Protein (P01)

Catalog # H00029110-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human TBK1 full-length ORF (NP_037386.1, 1 a.a. - 729 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MQSTSNHLWLLSDILGQGATANVFRGRHKKTGDLFAIKVFNNISFLRPVDVQMREFEVLKKLNHK
NIVKLFAIEEETTRHKVLIMEFCPCGSlyTVLEEPSNAYGLPESEFLVLRDVVGGMNHLRENGVH
RDIKPGNIMRVIGEDGQSVYKLTDFGAARELEDDEQFVSLYGTEEYLHPDMYERAVLRKDHQKKY
GATVDLWSIGVTFYHAATGSLPFRPFEGPRRNKEVMYKIITGKPSGAISGVQKAENGPIDWSGDMP
VSCSLSRGLQVLLTPVLANILEADQEKCWGFDQFFAETSDILHRMVIHVFSLQQMTAHKMHSYNT
ATIFHEL VYKQTKIISNQELIYEGRRLLVLEPGRLAQHFPKTTEENPIFVVSREPLNTIGLIYEKISLPKV
HPRYDLGDASMAKAITGVVCYACRIASLTLQELMRKGIRWLIELIKDDYNETVHKKTEVVITLDF
CIRNIEKTVKVYEKLMKINLEAAELGEISDIHTKLLRLSSSQGTIETSLQDIDSRLSPGGSLADAWAH
QEGTHPKDRNVEKLQVLLNCMTEIYYQFKKDKAERRLAYNEEQIHKFDKQKLYYHATKAMTHFTDE
CVKKYEAFLNKSEEWIRKMLHLRKQLLSLTNQCFDIEEEVSKYQEYTNELQETLPQKMFTASSGIK
HTMTPIYPSSNTLVEMTLGMKKLKEEMEGVVKELAENNHLERFGSLTMDGGLRNVDCL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

110

Interspecies Antigen Sequence

Mouse (94); Rat (94)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — TBK1

Entrez GeneID	29110
GeneBank Accession#	NM_013254.2
Protein Accession#	NP_037386.1
Gene Name	TBK1
Gene Alias	FLJ11330, NAK, T2K
Gene Description	TANK-binding kinase 1
Omim ID	604834
Gene Ontology	Hyperlink
Gene Summary	The NF-kappa-B (NFKB) complex of proteins is inhibited by I-kappa-B (IKB) proteins, which inactivate NFKB by trapping it in the cytoplasm. Phosphorylation of serine residues on the IKB proteins by IKB kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation and nuclear translocation of the NFKB complex. The protein encoded by this gene is similar to IKB kinases and can mediate NFKB activation in response to certain growth factors. For example, the protein can form a complex with the IKB protein TANK and TRAF2 and release the NFKB inhibition caused by TANK. [provided by RefSeq]

Other Designations

NF- κ B-activating kinase

Publication Reference

- [RKIP and TBK1 form a positive feedback loop to promote type I interferon production in innate immunity.](#)

Gu M, Liu Z, Lai R, Liu S, Lin W, Ouyang C, Ye S, Huang H, Wang X.

The EMBO Journal 2016 Oct; 35(23):2553.

Application: WB, KA, Human, Recombinant protein

Pathway

- [Toll-like receptor signaling pathway](#)

Disease

- [Hepatitis C](#)