

TBK1 recombinant protein

TBK1, Active

CATALOG # AAA73980	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

TBK1; Active; NAK; T2K; FLJ11330; TBK1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for TBK1 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for TBK1 recombinant protein	Recombinant full-length human TBK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is BC034950. TBK1, also known as NAK or NFkB-activating kinase, is an upstream protein kinase that can phosphorylate and activate the Ikb kinases (1). Activation of Ikb kinases allows the phosphorylation of Ikb protein which is then degraded via the ubiquitination pathway. This mechanism allows the activation of the NFkB transcriptional complex. TBK1 is a specific upstream regulator of Ikb kinases and can also interact and the Ikb protein TANK. TBK1 is a component of the virus-activated kinase that phosphorylate IRF3 and IRF7 allowing their dimerization and translocation to the nucleus, where they induce transcription of interferon (2).
Product Categories/Family for TBK1 recombinant protein	Protein Kinases; Cytoplasmic Tyrosine Kinases; Inflammation; Nfkb Pathway; Ser/Thr Kinases
References	1. Tojima, Y. et al: NAK is an I-kappa-B kinase-activating kinase. Nature 404: 778-782, 2000. 2. Sharma, S. et al: Triggering the interferon antiviral response through an IKK-related pathway. Science 300: 1148-1151, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	34192452
NCBI GeneID	29110
Molecular Weight	83,642 Da
NCBI Official Full Name	Homo sapiens TANK-binding kinase 1, mRNA
NCBI Official Synonym Full Names	TANK binding kinase 1
NCBI Official Symbol	TBK1
NCBI Official Synonym Symbols	NAK; T2K; FTDALS4
NCBI Protein Information	serine/threonine-protein kinase TBK1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/tbk1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73980>