

Product datasheet

Recombinant human NAK/TBK1 protein ab85276

[1 References](#) [6 Images](#)

Description

Product name	Recombinant human NAK/TBK1 protein
Biological activity	The Specific activity of ab85276 was determined to be 305 nmol/min/mg.
Purity	> 70 % Affinity purified. Purified by affinity chromatography
Expression system	Baculovirus infected Sf9 cells
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MQSTSNHLWLLSDILGQGATANVFRGRHKKTGDLFAIKVF NNISFLRPVD VQMQREFEVLKKNHKNIVKLF AIEEETTTRHKV LIMEFCPC GSLYTVLEE PSNAYGLPESEFLVLRDVVGGMNHLRENGVHRDIKPGNI MRVIGEDGQ SVYKLTDFGAARELEDDEQFVSLYGTEEYLHPDMYERAVL RKDHQKKYGA TVDLWSIGVTFYHAATGSLPFRPFEGPRRNKEVMYKITGK PSGAISGVQ KAENGPIDWSGDMPVSCSLSRGLQVLLTPVLANILEADQE KCWGFQFFA ETSDILHRMVIHVFSLQQMTAHKMIHSYNTATIFHELVIKQT KISSNQ ELIYEGRRLVLEPGRLAQHFPKTTEENPIFVVSREPLNTIGLI YEKISLP KVHPRYDLGDASMAKAITGVVCIACRIASTLLLYQELMR KGIRWLELI KDDYNETVHKKTEVVITLDFCIRNIEKTVKVYEKLMKINLEA AELGEISD IHTKLLRLSSSQGTIETSLQDIDSRLSPGGSLADAWAHQEG THPKDRNVE KLQVLLNCMTEIYQFKKDKAERRLAYNEEQIHKFDKQKLY YHATKAMTH FTDECVKKYEAFLNKSEEWIRKMLHLRKQLLSLTNQCFDI

EEEVSKYQEY
TNELQETLPQKMFTASSGIKHTMTPYPPSSNTLVEMTLGMK
KLKEEMEGV VKELAENNHILERFGSLTMDGGLRNVDC

Predicted molecular weight	105 kDa including tags
Amino acids	1 to 729
Tags	GST tag N-Terminus
Additional sequence information	BC034950

Specifications

Our **Abpromise guarantee** covers the use of **ab85276** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot Functional Studies SDS-PAGE
Form	Liquid
Additional notes	ab64311 (Myelin Basic Protein protein) can be utilized as a substrate for assessing kinase activity

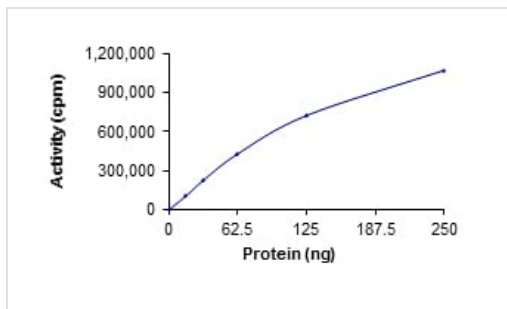
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

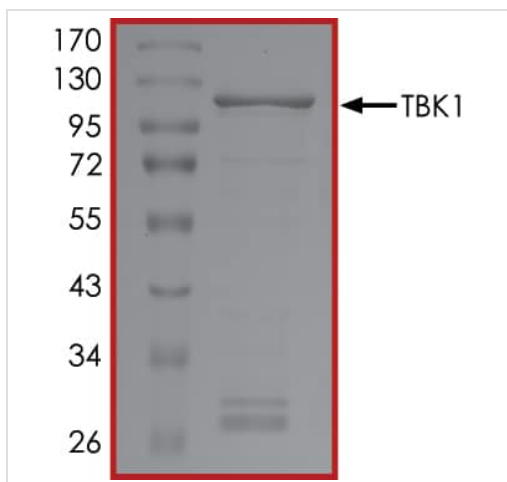
Function	Serine/threonine protein involved in the signaling cascade converging to the activation of the transcription factor NF-kappa-B. May function as an IKK kinase, playing an essential role in the transcription of a subset of TNF-alpha-induced genes. Also mediates production of RANTES/CCL5 and interferon-beta/IFNB1. Has a pivotal role in the innate immune response. Phosphorylates Borna disease virus (BDV) P protein. Phosphorylates and activates IRF3 and IRF7 and allows their nuclear localization. This leads to production of alpha/beta interferons and the development of a cellular antiviral state. It also seems to be a central factor in the induction of the antiviral interferon response. Inhibition of its interaction with IRF3, due to HCV NS3 binding or BDV P protein seems to be one mechanism of inhibition of the innate immune responses of hepatitis C virus (HCV) infection or Borna disease virus infection respectively.
Tissue specificity	Ubiquitous with higher expression in testis.
Sequence similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. I-kappa-B kinase subfamily. Contains 1 protein kinase domain.
Cellular localization	Cytoplasm.

Images



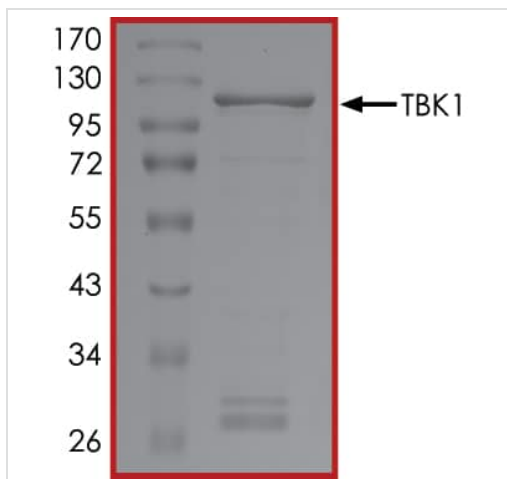
The specific activity of NAK/TBK1 (ab85276) was determined to be 310 nmol/min/mg as per activity assay protocol

Functional Studies - Recombinant human
NAK/TBK1 protein (ab85276)



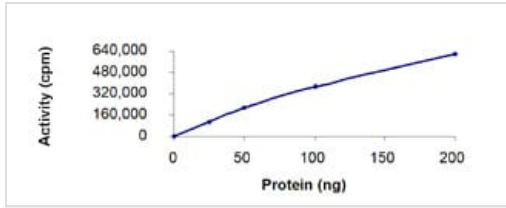
SDS PAGE analysis of ab85276

SDS-PAGE - Recombinant human NAK/TBK1
protein (ab85276)



SDS PAGE analysis of ab85276

SDS-PAGE - Recombinant human NAK/TBK1
protein (ab85276)



The Specific activity of ab85276 was determined to be 305 nmol/min/mg.

Functional Studies - Recombinant human NAK/TBK1 protein (ab85276)



SDS-PAGE showing ab85276 at approximately 105kDa.

SDS-PAGE - Recombinant human NAK/TBK1 protein (ab85276)



Western blot - Recombinant human NAK/TBK1 protein (ab85276)

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