

Product datasheet

Recombinant human NAK/TBK1 protein ab85276

1 References 6 Images

Description

<b>Product name</b>	Recombinant human NAK/TBK1 protein
<b>Biological activity</b>	The Specific activity of ab85276 was determined to be 305 nmol/min/mg.
<b>Expression system</b>	Baculovirus infected Sf9 cells
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<p>MQSTSNHLWLLSDILGQGATANVFRGRHKKTGDLFAIKVF            NNISFLRPVD            VQMRFEFEVLKKNHKNVKLFAIEEETTRHKVLMIEFCPC            GSLYTVLEE            PSNAYGLPESEFLVLRDVVGGMNHGRENGVHRDIKPGNI            MRVIGEDGQ            SVYKLTDFGAARELEDDEQFVSLYGTEEYLHPDMYERAVL            RKDHQKKYGA            TVDLWSIGVTFYHAATGSLPFRPFEGPRRNKEVMYKITGK            PSGAISGVQ            KAENGPIDWSGDMPVSCSLSRGLQVLLTPVLANILEADQE            KCWGFQFFA            ETSDILHRMVIHVFSLQQMTAHKMIHSYNTATIFHELVYKQT            KISSNQ            ELIYEGRRLVLEPGRLAQHFPKTTEENPIFVVSREPLNTIGLI            YEKISLP            KVHPRYDLGDASMAKAITGVVCIACRIASTLLLYQELMR            KGIRWLIELI            KDDYNETVHKKTEVVITLDFCIRNIEKTVKVYEKLMKINLEA            AELGEISD            IHTKLLRLSSSQGTIETSLQDIDSRLSPGGSLADAWAHQEG            THPKDRNVE            KLQVLLNCMTEIYQFKKDKAERRLAYNEEQIHKFDKQKLY            YHATKAMTH            FTDECVKKYEAFLNKSEEWIRKMLHLRKQLLSLTNQCFDI            EEEVSKYQEY            TNELQETLPQKMFTASSGIKHTMTPMPSSNTLVEMTLGMK</p>

<b>Predicted molecular weight</b>	105 kDa including tags
<b>Amino acids</b>	1 to 729
<b>Tags</b>	GST tag N-Terminus

## Specifications

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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.

<b>Applications</b>	Western blot Functional Studies
<b>Form</b>	Liquid
<b>Additional notes</b>	<a href="#">ab64311</a> (Myelin Basic Protein protein) can be utilized as a substrate for assessing kinase activity

## Preparation and Storage

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<b>Stability and Storage</b>	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

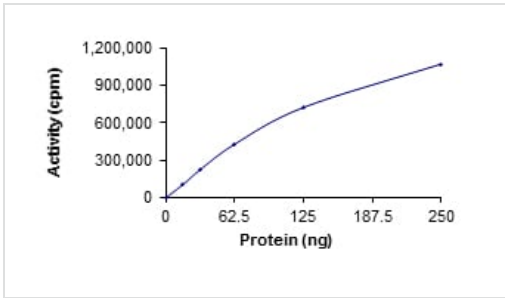
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<b>Function</b>	Serine/threonine protein involved in the signaling cascade converging to the activation of the transcription factor NF-kappa-B. May function as an IKK kinase, playing an essential role in the transcription of a subset of TNF-alpha-induced 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.
<b>Tissue specificity</b>	Ubiquitous with higher expression in testis.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. I-kappa-B kinase subfamily. Contains 1 protein kinase domain.
<b>Cellular localization</b>	Cytoplasm.

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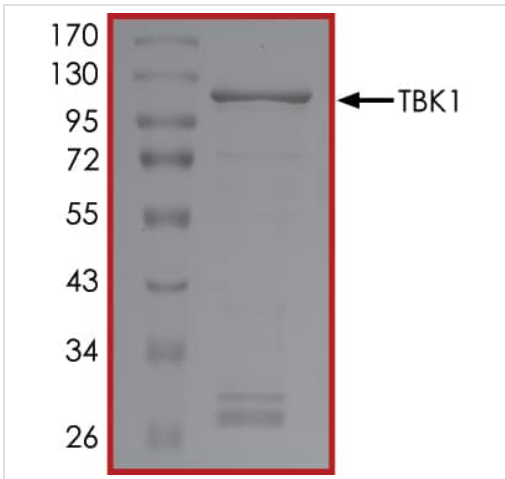
## Images

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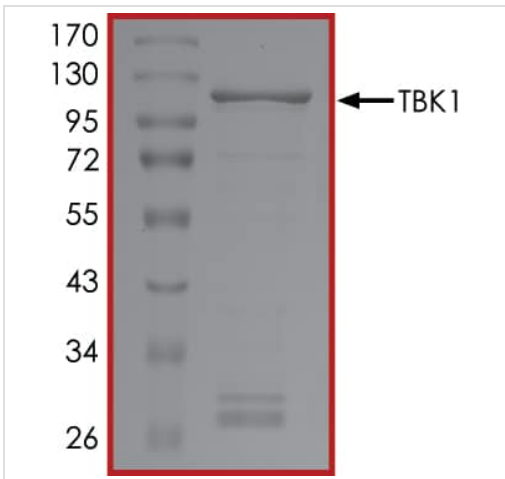
The specific activity of NAK/TBK1 (ab85276) was determined to be 310 nmol/min/mg as per activity assay protocol

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



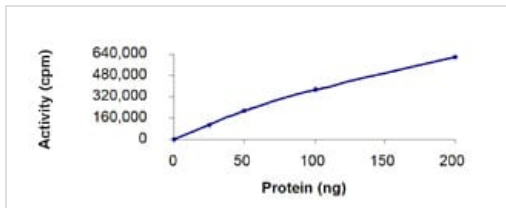
SDS PAGE analysis of ab85276

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



SDS PAGE analysis of ab85276

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



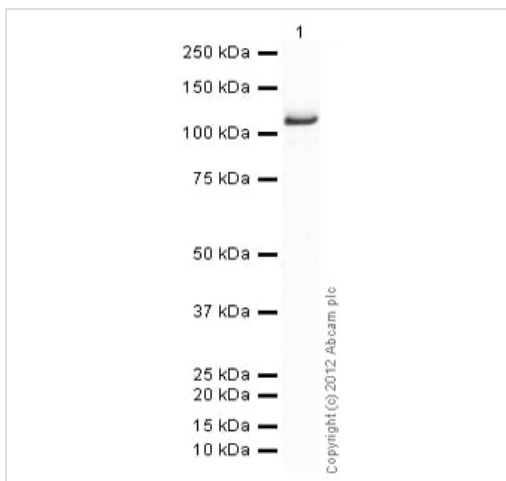
The Specific activity of ab85276 was determined to be 305 nmol/min/mg.

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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