

## Product datasheet

# Recombinant human NFkB Inducing Kinase NIK protein ab105210

[5 Images](#)

### Description

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|                                   |  |
|-----------------------------------|--|
| <b>Product name</b>               | Recombinant human NFkB Inducing Kinase NIK protein                                       |
| <b>Biological activity</b>        | The Specific activity of ab105210 was determined to be 8 nmol/min/mg.                    |
| <b>Purity</b>                     | > 85 % SDS-PAGE.<br>Purity was determined to be >85% by densitometry. Affinity purified. |
| <b>Expression system</b>          | Baculovirus infected Sf9 cells   |
| <b>Accession</b>                  | <u><a href="#">Q99558</a></u>  |
| <b>Protein length</b>             | Protein fragment   |
| <b>Animal free</b>                | No   |
| <b>Nature</b>                     | Recombinant  |
| <b>Species</b>                    | Human  |
| <b>Predicted molecular weight</b> | 108 kDa including tags   |
| <b>Amino acids</b>                | 325 to 947   |

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab105210** in the following tested applications.

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

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|-------------------------|--|
| <b>Applications</b>     | Western blot<br>Functional Studies<br>SDS-PAGE   |
| <b>Form</b>             | Liquid   |
| <b>Additional notes</b> | <u><a href="#">ab64311</a></u> (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.<br>pH: 7.50 |
|------------------------------|---|

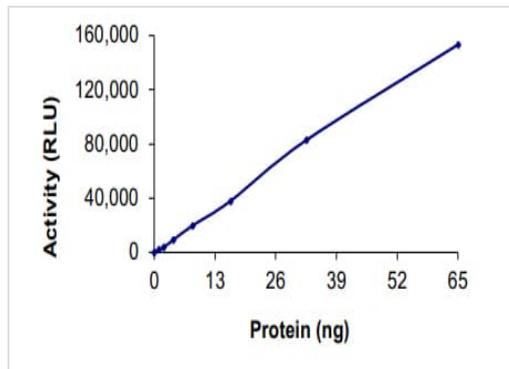
Constituents: 0.307% Glutathione, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

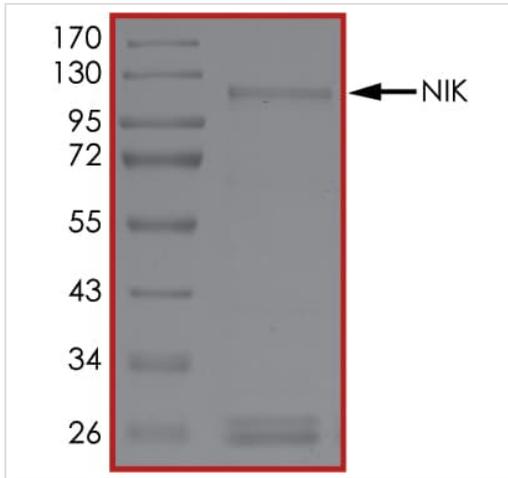
|   |   |
|---|---|
| <b>Function</b>                         | Lymphotoxin beta-activated kinase which seems to be exclusively involved in the activation of NF-kappa-B and its transcriptional activity. Promotes proteolytic processing of NFkB2/P100, which leads to activation of NF-kappa-B via the non-canonical pathway. Could act in a receptor-selective manner.  |
| <b>Tissue specificity</b>               | Weakly expressed in testis, small intestine, spleen, thymus, peripheral blood leukocytes, prostate, ovary and colon.  |
| <b>Sequence similarities</b>            | Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily.<br>Contains 1 protein kinase domain.  |
| <b>Post-translational modifications</b> | Autophosphorylated. Phosphorylation at Thr-559 is required to activates its kinase activity and 'Lys-63'-linked polyubiquitination. Phosphorylated by CHUK/IKKA leading to MAP3K14 destabilization.<br>Ubiquitinated. Undergoes both 'Lys-48'- and 'Lys-63'-linked polyubiquitination. 'Lys-48'-linked polyubiquitination leads to its degradation by the proteasome, while 'Lys-63'-linked polyubiquitination stabilizes and activates it. |
| <b>Cellular localization</b>            | Cytoplasm.  |

## Images



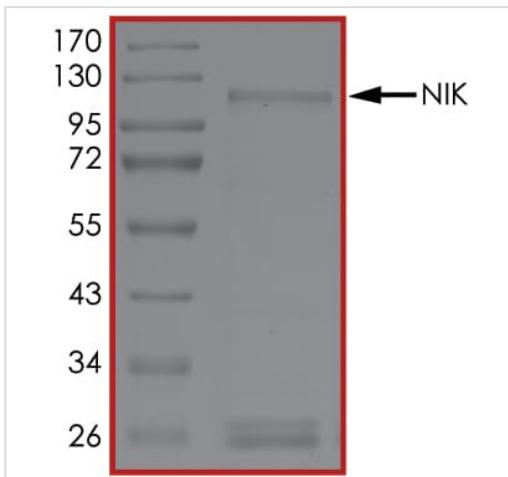
The specific activity of NFkB Inducing Kinase NIK (ab105210) was determined to be 5.5 nmol/min/mg as per activity assay protocol and was equivalent to 7.1 nmol/min/mg as per radiometric assay

Functional Studies - Recombinant human NFkB  
Inducing Kinase NIK protein (ab105210)



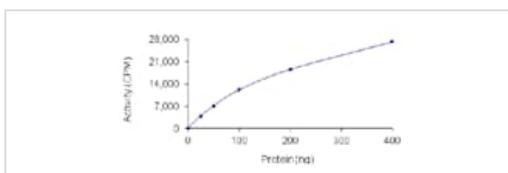
SDS PAGE analysis of ab105210

SDS-PAGE - Recombinant human NFkB Inducing Kinase NIK protein (ab105210)



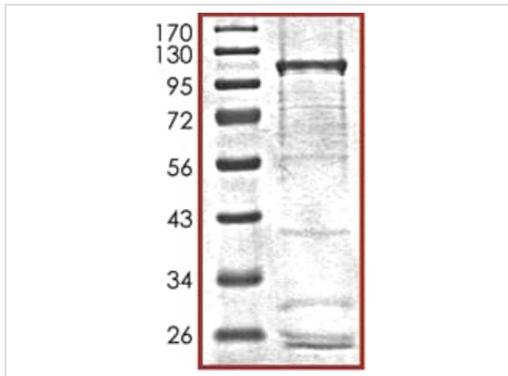
SDS PAGE analysis of ab105210

SDS-PAGE - Recombinant human NFkB Inducing Kinase NIK protein (ab105210)



The Specific activity of ab105210 was determined to be 8 nmol/min/mg.

Functional Studies - Recombinant human NFkB Inducing Kinase NIK protein (ab105210)



SDS-PAGE showing ab105210 at approximately 108kDa.

SDS-PAGE - Recombinant human NFkB Inducing Kinase NIK protein (ab105210)

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