

Product datasheet

# Recombinant human NFkB Inducing Kinase NIK protein ab105210

[2 Images](#)

**Overview**

---

<b>Product name</b>	Recombinant human NFkB Inducing Kinase NIK protein
<b>Protein length</b>	Protein fragment

**Description**

---

<b>Nature</b>	Recombinant
<b>Source</b>	Baculovirus infected Sf9 cells

**Amino Acid Sequence**

<b>Accession</b>	<a href="#">Q99558</a>
<b>Species</b>	Human
<b>Molecular weight</b>	108 kDa including tags
<b>Amino acids</b>	325 to 947

**Specifications**

---

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.

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

**Applications** Western blot  
Functional Studies  
SDS-PAGE

**Purity** > 85 % SDS-PAGE.  
Purity was determined to be >85% by densitometry.

**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.

Preservative: 0% None

Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5

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

## General Info

---

### Function

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.

### Tissue specificity

Weakly expressed in testis, small intestine, spleen, thymus, peripheral blood leukocytes, prostate, ovary and colon.

### Sequence similarities

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily.

Contains 1 protein kinase domain.

### Post-translational modifications

Autophosphorylated. Phosphorylation at Thr-559 is required to activate its kinase activity and 'Lys-63'-linked polyubiquitination. Phosphorylated by CHUK/IKKA leading to MAP3K14 destabilization.

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.

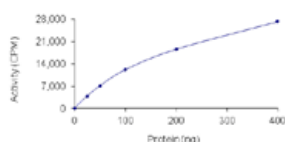
### Cellular localization

Cytoplasm.

---

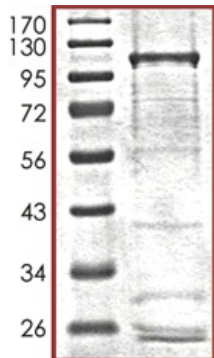
## Images

---



Functional Studies - NFkB Inducing Kinase NIK protein (ab105210)

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



SDS-PAGE showing ab105210 at approximately 108kDa.

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

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors