abcam

Product datasheet

Recombinant human NFkB Inducing Kinase NIK protein ab105210

5 Images

Description

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

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 -80ºC. Avoid freeze / thaw cycles. 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

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.

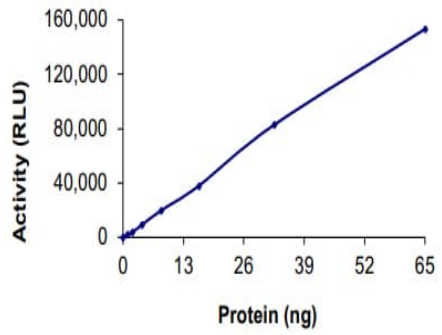
Post-translational modifications

Autophosphorylated. Phosphorylation at Thr-559 is required to activates 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

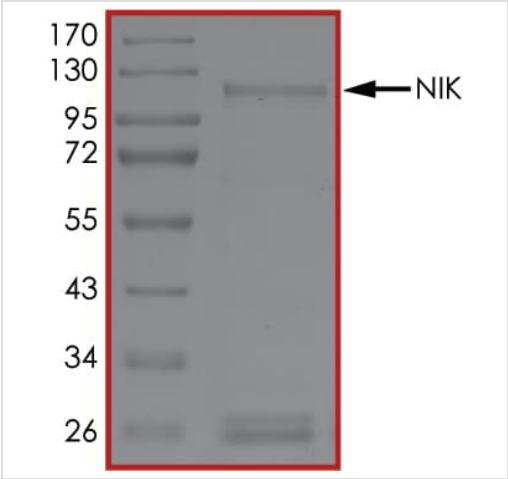
Cytoplasm.

Images



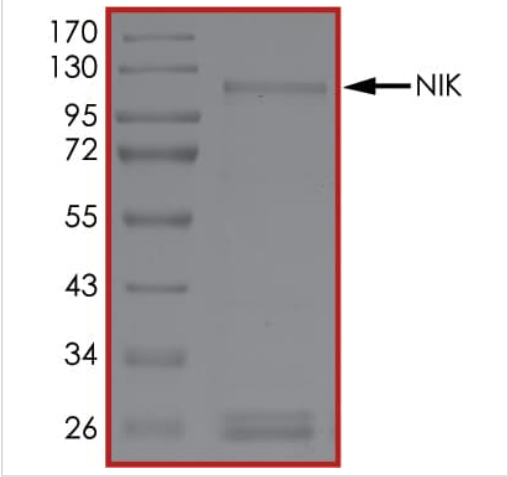
Functional Studies - Recombinant human NFkB Inducing Kinase NIK protein (ab105210)

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



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

SDS PAGE analysis of ab105210



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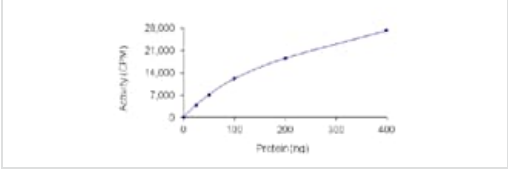
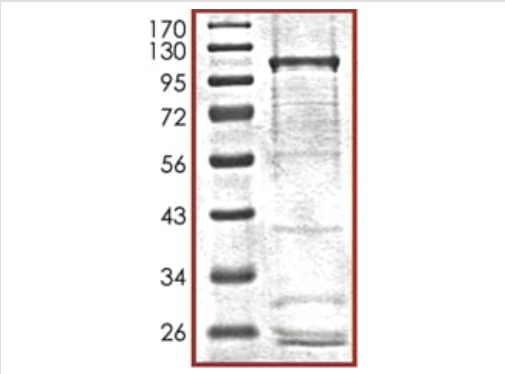


Functional Studies - Recombinant human NFkB Inducing Kinase NIK protein (ab105210)

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



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

SDS-PAGE showing ab105210 at approximately 108kDa.

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