abcam

Product datasheet

Recombinant human NFkB Inducing Kinase NIK protein ab105210

2 Images

Overview

Product name	Recombinant human NFkB Inducing Kinase NIK protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Baculovirus infected Sf9 cells

Amino Acid Sequence

Accession	Q99558
Species	Human
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.

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

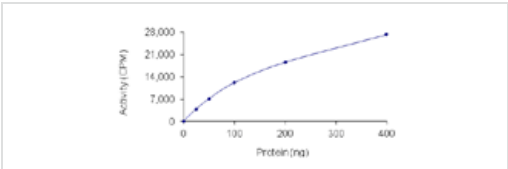
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -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, 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)

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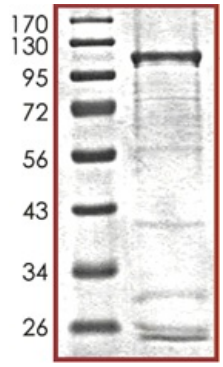

SDS-PAGE - Recombinant human NFkB Inducing Kinase NIK protein (ab105210)

SDS-PAGE showing ab105210 at approximately 108kDa.

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