abcam

Product datasheet

Recombinant human NLK protein ab107700

2 Images

Description

Product name	Recombinant human NLK protein
Biological activity	Specific activity: 2.4 nmol/min/mg
Purity	> 85 % SDS-PAGE. The purity was determined to be >85% by densitometry. GST Affinity Column purified.
Expression system	Baculovirus infected Sf9 cells
Accession	**Q9UBE8**
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	84 kDa including tags
Amino acids	1 to 527

Specifications

Our **Abpromise guarantee** covers the use of **ab107700** in the following tested applications.

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

Applications	SDS-PAGE Western blot Functional Studies
Form	Liquid
Additional notes	**ab64311** (Myelin Basic Protein protein) can be utilized as a substrate for assessing kinase activity

Preparation and Storage

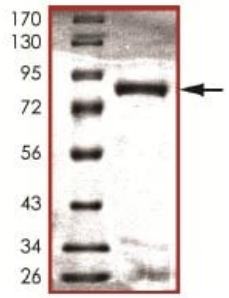
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.307% Glutathione, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride

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

General Info

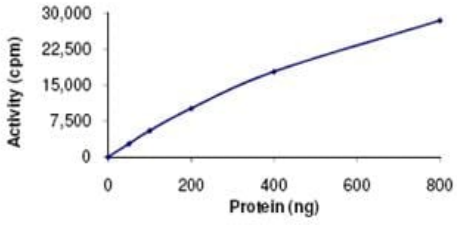
Function	Role in cell fate determination, required for differentiation of bone marrow stromal cells. Acts downstream of MAP3K7 and HIPK2 to negatively regulate the canonical Wnt/beta-catenin signaling pathway and the phosphorylation and destruction of the MYB transcription factor. May suppress a wide range of transcription factors by phosphorylation of the coactivator, CREBBP (By similarity). Involved in TGFbeta-mediated mesoderm induction, acting downstream of MAP3K7/TAK1 to phosphorylate STAT3.
Sequence similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily. Contains 1 protein kinase domain.
Post-translational modifications	Dually phosphorylated on Thr-303 and Tyr-305, which activates the enzyme.
Cellular localization	Nucleus. Cytoplasm. Predominantly nuclear. A smaller fraction is cytoplasmic.

Images



SDS-PAGE - Recombinant human NLK protein (ab107700)

SDS-PAGE analysis of ab107700



Functional Studies - Recombinant human NLK protein (ab107700)

Specific activity of ab107700 was determined to be 2.4 nmol/min/mg.

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