

Recombinant human IKK alpha protein (Active) ab102103

1 References **6 图像**

描述

| | |
|-----------|---|
| 产品名称 | 重组人IKK alpha蛋白(Active) |
| 生物活性 | Specific activity is 2.5nm/min/mg |
| 纯度 | > 75 % Densitometry. ab102103 was determined to be >75% pure by densitometry. Affinity purified. |
| 表达系统 | Baculovirus infected Sf9 cells |
| Accession | <u>O15111</u> |
| 蛋白长度 | Full length protein |
| 无动物成分 | No |
| 性质 | Recombinant |
| 种属 | Human |
| 分子量信息 | Approx 114 kDa by SDS-PAGE |
| 氨基酸 | 1 to 745 |
| 标签 | GST tag N-Terminus |
| 额外的序列信息 | GenBank: BC092514 |

技术指标

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|--|---|
| Our <u>Abpromise guarantee</u> covers the use of ab102103 in the following tested applications. | |
| The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user. | |
| 应用 | SDS-PAGE Western blot Functional Studies |
| 形式 | Liquid |
| 补充说明 | <u>ab204863</u> (IKB alpha peptide) can be utilized as a substrate for assessing kinase activity |

制备和贮存

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|--------|---|
| 稳定性和存储 | Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 |
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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.

常规信息

功能

Acts as part of the IKK complex in the conventional pathway of NF-kappa-B activation and phosphorylates inhibitors of NF-kappa-B thus leading to the dissociation of the inhibitor/NF-kappa-B complex and ultimately the degradation of the inhibitor. As part of the non-canonical pathway of NF-kappa-B activation, the MAP3K14-activated CHUK/IKKA homodimer phosphorylates NFKB2/p100 associated with RelB, inducing its proteolytic processing to NFKB2/p52 and the formation of NF-kappa-B RelB-p52 complexes. Also phosphorylates NCOA3. Phosphorylates 'Ser-10' of histone H3 at NF-kappa-B-regulated promoters during inflammatory responses triggered by cytokines.

组织特异性

Widely expressed.

疾病相关

Defects in CHUK are the cause of cocoon syndrome (COCOS) [MIM:613630]; also known as fetal encasement syndrome. COCOS is a lethal syndrome characterized by multiple fetal malformations including defective face and seemingly absent limbs, which are bound to the trunk and encased under the skin.

序列相似性

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. I-kappa-B kinase subfamily.

Contains 1 protein kinase domain.

翻译后修饰

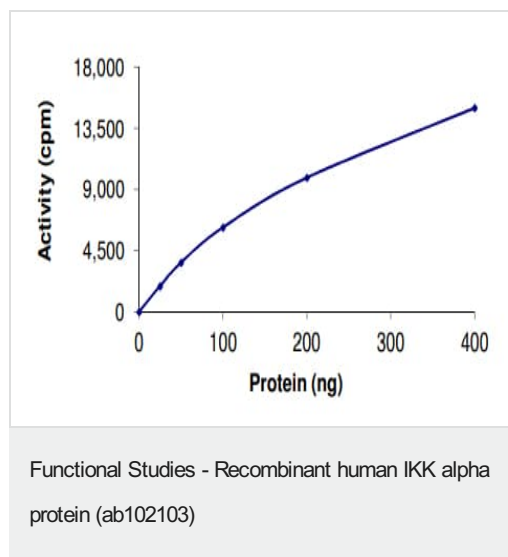
Phosphorylated by MAP3K14/NIK, AKT and to a lesser extent by MEKK1, and dephosphorylated by PP2A. Autophosphorylated.

Acetylation of Thr-179 by Yersinia yopJ prevents phosphorylation and activation, thus blocking the I-kappa-B signaling pathway.

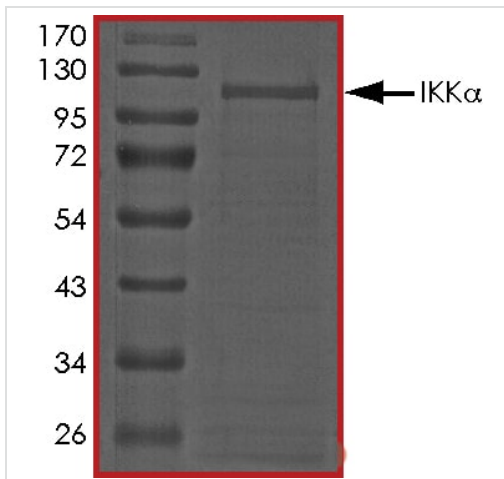
细胞定位

Cytoplasm. Nucleus. Shuttles between the cytoplasm and the nucleus.

图片

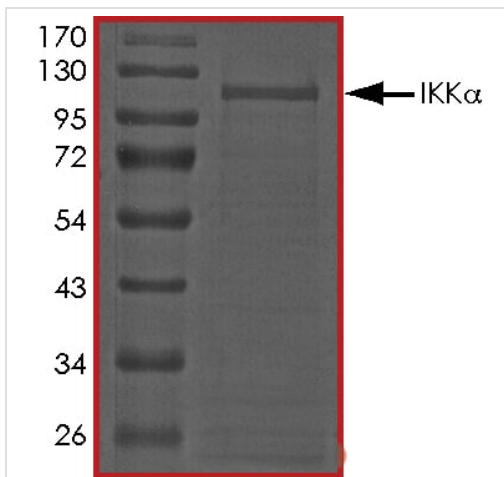


The specific activity of IKK alpha (ab102103) was determined to be 2.9 nmol/min/mg as per activity assay protocol



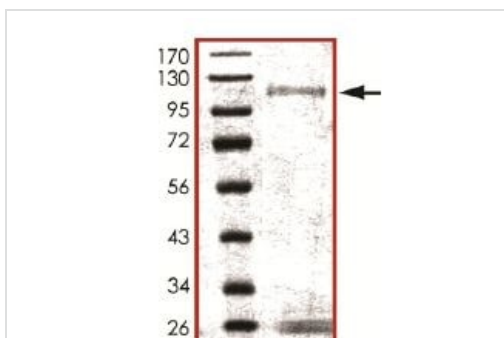
SDS PAGE analysis of ab102103

SDS-PAGE - Recombinant human IKK alpha protein
(ab102103)



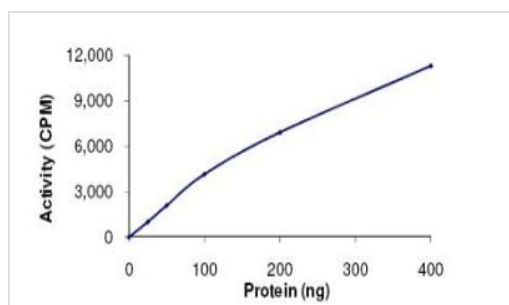
SDS PAGE analysis of ab102103

SDS-PAGE - Recombinant human IKK alpha protein
(ab102103)



ab102103 was determined to be >75% pure by densitometry. MWt
~114 kDa.

SDS-PAGE - Recombinant human IKK alpha protein
(ab102103)



Functional Studies - Recombinant human IKK alpha protein (ab102103)

The specific activity of ab102103 was determined to be 2.5 nmol/mg/min.



Western blot - Recombinant human IKK alpha protein (ab102103)

Anti-IKK alpha antibody [Y463] (**ab32041**) at 1/10000 dilution + Recombinant human IKK alpha protein (Active) (ab102103) at 0.01 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 10 seconds

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