

Product datasheet

Anti-IKK alpha antibody ab4112

4 图像

概述

产品名称	Anti-IKK alpha抗体
描述	兔多克隆抗体to IKK alpha
宿主	Rabbit
特异性	Recognises human IKK alpha and does not cross react with IKK beta or IKK gamma.
经测试应用	适用于: WB, ICC/IF
种属反应性	与反应: Human
免疫原	Synthetic peptide corresponding to amino acids 699-715 of human IKK alpha (1,2), which differs from corresponding murine sequence by one amino acid.
阳性对照	Whole cell lysate from HeLa cells.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	PBS with 0.02% sodium azide
纯度	IgG fraction
纯化说明	Purified IgG was prepared from rabbit antiserum by affinity chromatography.
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab4112** in the following tested applications.

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

应用	Ab评论	说明
WB		1/500 - 1/1000. Predicted molecular weight: 85 kDa.

应用	Ab评论	说明
ICC/IF		Use a concentration of 10 µg/ml.

靶标

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

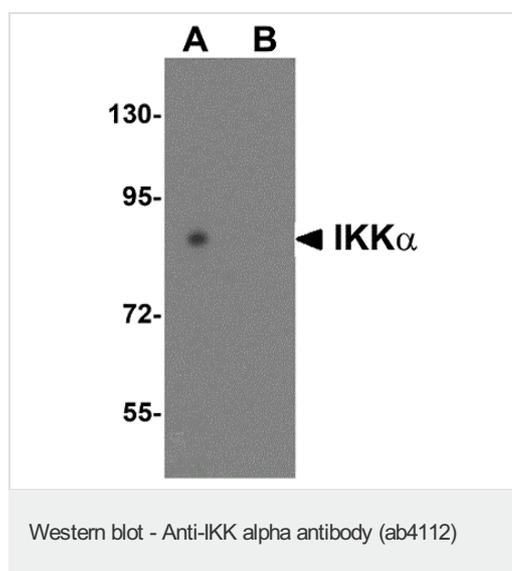
Phosphorylated by MAP3K14/NIK, AKT and to a lesser extent by MEKK1, and dephosphorylated by PP2A. Autophosphorylated.

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

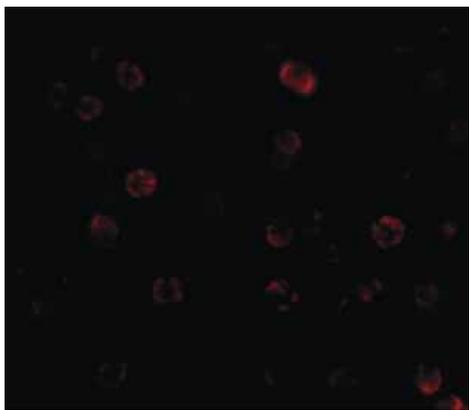


All lanes : Anti-IKK alpha antibody (ab4112)
at 1 µg/ml (IKK alpha antibody)

Lane 1 : HeLa cell lysate with Absence of
blocking peptide

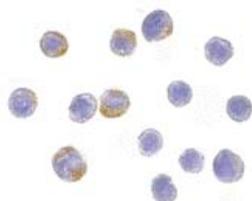
Lane 2 : HeLa cell lysate with Presence of
blocking peptide

Predicted band size: 85 kDa



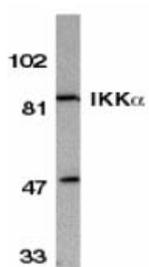
Immunofluorescence of IKK alpha in HeLa cells with ab4112 at 2 ug/mL.

Immunocytochemistry/ Immunofluorescence - Anti-IKK alpha antibody (ab4112)



ab4112 at 10ug/ml staining IKK alpha in HeLa cells by ICC/IF

Immunocytochemistry/ Immunofluorescence - Anti-IKK alpha antibody (ab4112)



Anti-IKK alpha antibody (ab4112) at 1/500 dilution + HeLa whole cell lysate

Predicted band size: 85 kDa
Observed band size: 85 kDa

Western blot - Anti-IKK alpha antibody (ab4112)

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