

Anti-IKK alpha antibody [EPR464] ab109749

敲除验证 重组 RabMAb

7 References 5 图像

概述	
产品名称	Anti-IKK alpha抗体[EPR464]
描述	兔单克隆抗体[EPR464] to IKK alpha
宿主	Rabbit
经测试应用	适用于: WB, IP, IHC-P 不适用于: Flow Cyt (Intra) or ICC/IF
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Jurkat, HeLa, HepG2 and Daudi cell lysates; IHC: Human breast tissue IP: Jurkat cell lysate.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>
性能	
形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
纯度	Protein A purified
克隆	单克隆

克隆编号EPR464

同种型IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab109749于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

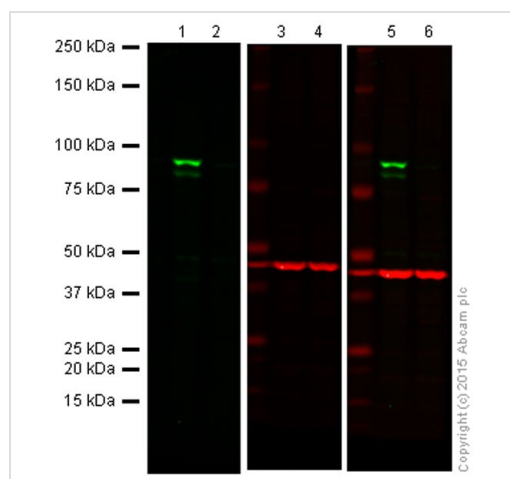
应用	Ab评论	说明
WB		1/1000 - 1/10000. Predicted molecular weight: 85 kDa.
IP		1/10 - 1/100.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

应用说明 Is unsuitable for Flow Cyt (Intra) or ICC/IF.

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



Western blot - Anti-IKK alpha antibody [EPR464]
(ab109749)

Lanes 1, 3 and 5: Wild-type HAP1 cell lysate (20 µg)

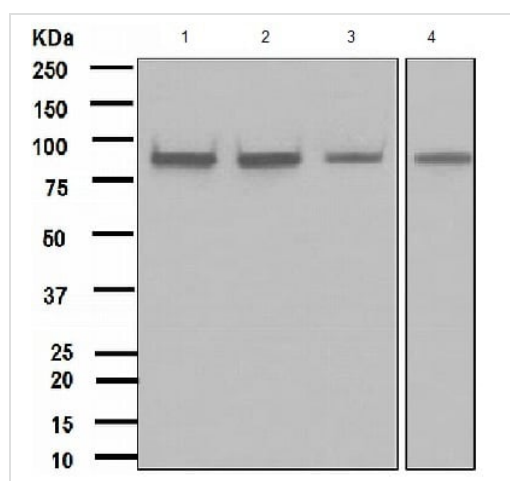
Lanes 2, 4 and 6: IKK alpha knockout HAP1 cell lysate (20 µg)

Lanes 1 and 2: Green signal from target - ab109749 observed at 84 kDa

Lanes 3 and 4: Red signal from loading control - [ab8226](#) observed at 42 kDa

Lanes 5 and 6: Merged (red and green) signal

ab109749 was shown to specifically react with IKK alpha when IKK alpha knockout samples were used. Wild-type and IKK alpha knockout samples were subjected to SDS-PAGE. ab109749 and [ab8226](#) (loading control to beta actin) were both diluted at 1/1000 and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1/10000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-IKK alpha antibody [EPR464]
(ab109749)

All lanes : Anti-IKK alpha antibody [EPR464] (ab109749) at 1/1000 dilution

Lane 1 : Jurkat cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : HepG2 cell lysate

Lane 4 : Daudi cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 85 kDa



Immunoprecipitation - Anti-IKK alpha antibody
[EPR464] (ab109749)

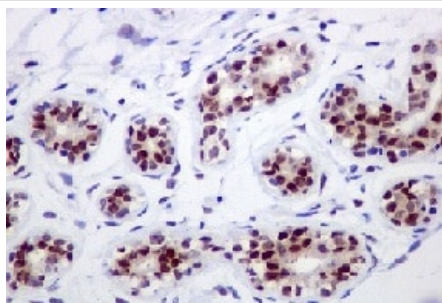
IKK alpha was immunoprecipitated from 0.35 mg Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate 10 µg with 109749 at 1/50 dilution (2µg). VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/5000 dilution.

Lane 1: Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate 10 µg

Lane 2: ab109749 IP in Jurkat whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab109749 in Jurkat whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IKK alpha antibody
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ab109749, at 1/100 dilution, staining IKK alpha in paraffin-embedded Human breast tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-IKK alpha antibody [EPR464] (ab109749)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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