


Anti-IKK alpha (phospho S176 + S180) antibody ab17943

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概述

产品名称	Anti-IKK alpha (phospho S176 + S180)抗体
描述	兔多克隆抗体to IKK alpha (phospho S176 + S180)
宿主	Rabbit
特异性	Due to sequence homology between the isoforms, this antibody may cross-react with IKKbeta that contains phosphorylated serine 176 and 180. However, we have no direct experimental evidence for this in our records.
经测试应用	适用于: ICC/IF, WB
种属反应性	与反应: Human 预测可用于: Mouse 
免疫原	Synthetic peptide corresponding to IKK alpha (phospho S176 + S180).
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.05% Sodium azide Constituents: PBS, 0.1% BSA
纯度	PBS is Ca ²⁺ and Mg ²⁺ free Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab17943于以下的经测试应用

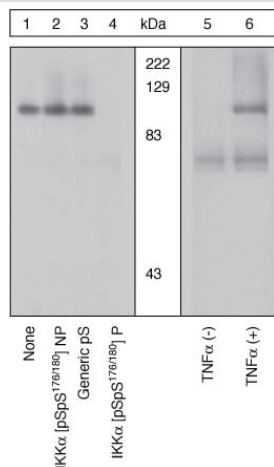
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use at an assay dependent concentration. PubMed: 21887257
WB	★★★★★ (1)	Use at an assay dependent concentration. Predicted molecular weight: 84 kDa. When looking at the phosphorylation of endogenous proteins, we recommend that IKKalpha first be immunoprecipitated.

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 (phospho S176 + S180) antibody (ab17943)

All lanes : Anti-IKK alpha (phospho S176 + S180) antibody (ab17943) at 1/500 dilution

Lane 1 : Jurkat cells stimulated with 80 ng/mL TNF-alpha for 5 minutes at 37C; no peptide

Lane 2 : Jurkat cells stimulated with 80 ng/mL TNF-alpha for 5 minutes at 37C, non-phosphopeptide corresponding to the immunogen

Lane 3 : Jurkat cells stimulated with 80 ng/mL TNF-alpha for 5 minutes at 37C, a generic phosphoserine containing peptide

Lane 4 : Jurkat cells stimulated with 80 ng/mL TNF-alpha for 5 minutes at 37C, with the phosphopeptide immunogen

Lane 5 : Jurkat cells unstimulated, no peptide

Lane 6 : Jurkat cells stimulated with 80 ng/mL TNF-alpha for 5 minutes at 37C, no peptide

Secondary

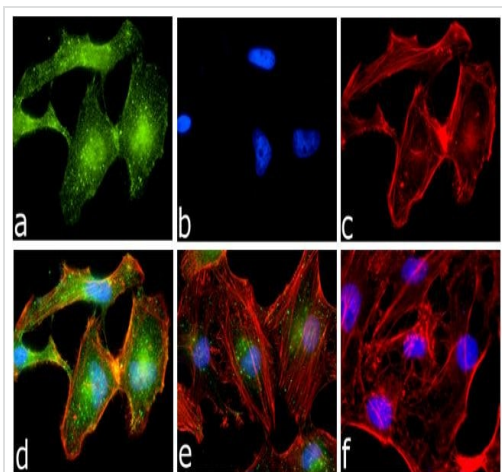
All lanes : Goat F (ab')₂ anti-rabbit IgG HRP conjugate

Predicted band size: 84 kDa

Immunoprecipitates prepared from lysates of Jurkat cells were resolved by SDS-PAGE on a 10% polyacrylamide gel and transferred to PVDF.

Membranes were either incubated with peptides (lanes 2, 3, and 4) or without peptides (lanes 1, 5 and 6) then blocked with a 5% BSA-TBST buffer overnight at 4°C and incubated with ab17943 at 1/500 dilution for two hours at room temperature in a 3% BSA-TBST buffer.

After washing, membranes were incubated with goat F (ab')₂ anti-rabbit IgG HRP conjugate, and bands were detected using the Pierce SuperSignal™ method. The phospho-signal is induced by the addition of TNF-alpha.



Immunocytochemistry - Anti-IKK alpha (phospho S176 + S180) antibody (ab17943)

Immunofluorescence analysis of 70% confluent log phase 50 ng/mL TNF-Alpha treated paraformaldehyde-fixed HeLa cells permeabilized with 0.25% Triton™ X-100 for 10 minutes, blocked with 5% BSA for 1 hour at room temperature. Panel a) Green: IKK alpha (phospho S176 + S180) was labelled with ab17943 at 1/250 dilution 0.1% BSA and the secondary antibody was Goat anti-Rabbit IgG (H+L) Superclonal™ Alexa Fluor® 488 conjugate at 1/2000 dilution. The primary was incubated in for 3 hours at room temperature and the secondary: for 45 minutes at room temperature. Panel b) Blue nuclear staining with SlowFade® Gold Antifade Mountant with DAPI. Panel C) Red: F-actin staining with 1/300 dilution Rhodamine Phalloidin. Panel d) Merged. Panel e) No primary antibody control. The images were captured at 60X magnification.

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