abcam

Product datasheet

HRP Anti-IKB alpha antibody [E130] ab202646

敲除验证 重组 RabMAb

1 References 4 图像

概述

产品名称	HRP Anti-IKB alpha抗体[E130]
描述	HRP兔单克隆抗体[E130] to IKB alpha
宿主	Rabbit
偶联物	HRP
经测试应用	**适用于:** IHC-P, WB
种属反应性	**与反应:** Mouse, Rat, Human **预测可用于:** Hamster, Cow, Pig
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: PC12, NIH3T3, RAW 264.7 whole cell lysates and human fetal liver tissue lysate. IHC: Human kidney (FFPE)
常规说明	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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. Stable for 12 months at -20°C. Store In the Dark.
存储溶液	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	E130
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab202646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
IHC-P		1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/5000. Detects a band of approximately 35 kDa (predicted molecular weight: 36 kDa).

靶标

功能	Inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL dimers in the cytoplasm through masking of their nuclear localization signals. On cellular stimulation by immune and proinflammatory responses, becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription.
疾病相关	Ectodermal dysplasia, anhidrotic, with T-cell immunodeficiency autosomal dominant
序列相似性	Belongs to the NF-kappa-B inhibitor family. Contains 5 ANK repeats.
翻译后修饰	Phosphorylated; disables inhibition of NF-kappa-B DNA-binding activity. Phosphorylation at positions 32 and 36 is prerequisite to recognition by UBE2D3 leading to polyubiquitination and subsequent degradation. Sumoylated; sumoylation requires the presence of the nuclear import signal. Sumoylation blocks ubiquitination and proteasome-mediated degradation of the protein thereby increasing the protein stability. Monoubiquitinated at Lys-21 and/or Lys-22 by UBE2D3. Ubiquitin chain elongation is then performed by CDC34 in cooperation with the SCF(FBXW11) E3 ligase complex, building ubiquitin chains from the UBE2D3-primed NFKBIA-linked ubiquitin. The resulting polyubiquitination leads to protein degradation. Also ubiquitinated by SCF(BTRC) following stimulus-dependent phosphorylation at Ser-32 and Ser-36. Deubiquitinated by porcine reproductive and respiratory syndrome virus Nsp2 protein, which thereby interferes with NFKBIA degradation and impairs subsequent NF-kappa-B activation.
细胞定位	Cytoplasm. Nucleus. Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export.

图片

Western blot - HRP Anti-IKB alpha antibody [E130] (ab202646)

All lanes : HRP Anti-IKB alpha antibody [E130] (ab202646) at 1/5000 dilution

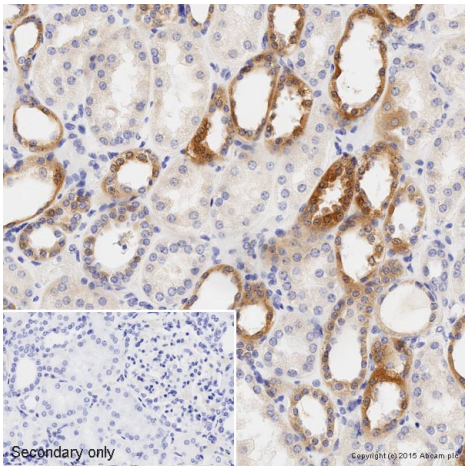
Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : NFKBIA (IKB alpha) knockout HAP1 whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 36 kDa
Observed band size: 35 kDa

Exposure time: 12 minutes

ab202646 was shown to recognize IKB alpha in wild-type HAP1 cells as signal was lost at the expected MW in NFKBIA (IKB alpha) knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and NFKBIA (IKB alpha) knockout samples were subjected to SDS-PAGE. Ab202646 and **ab184095** (Mouse monoclonal [mAbcam 9484] to GAPDH - Loading Control (Alexa Fluor® 680) loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/1000 dilution respectively. The loading control was imaged using the Licor Odyssey CLx prior to blots being developed with ECL technique.

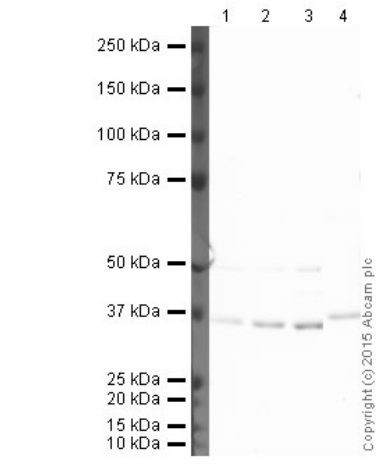


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-IKB alpha antibody [E130] (ab202646)

IHC image of IKB alpha staining in a section of formalin-fixed paraffin-embedded normal human kidney*, performed on a Leica BOND. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab202646, 1/50 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - HRP Anti-IKB alpha antibody [E130] (ab202646)

All lanes : HRP Anti-IKB alpha antibody [E130] (ab202646) at 1/5000 dilution

Lane 1 : PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate
Lane 2 : NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate
Lane 3 : RAW 264.7 (Mouse leukaemic monocyte macrophage cell line) Whole Cell Lysate
Lane 4 : Liver (Human) Tissue Lysate - fetal normal tissue

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 36 kDa

Observed band size: 36 kDa

Exposure time: 4 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab202646 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors