

Product datasheet

Anti-IKB alpha (phospho Y305) antibody ab24784

1 图像

概述

产品名称	Anti-IKB alpha (phospho Y305)抗体
描述	兔多克隆抗体到 IKB alpha (phospho Y305)
经测试应用	适用于: WB, ELISA
种属反应性	与反应: Human
免疫原	Synthetic peptide corresponding to Human IKB alpha (phospho Y305) conjugated to Keyhole Limpet Haemocyanin (KLH). Synthetic peptide conjugated to KLH corresponding to amino acid residues around tyrosine 305 of human IKB alpha. This peptide sequence has low homology to other IKB proteins.
阳性对照	A431 and Jurkat cells treated with pervanadate.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.05% Sodium Azide Constituents: 50% Glycerol, PBS, 1mg/ml BSA
纯度	Immunogen affinity purified
纯化说明	This antibody was cross-adsorbed to phospho-tyrosine coupled to agarose then affinity purified using phospho IKB alpha (Tyr-305) peptide.
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab24784** in the following tested applications.

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

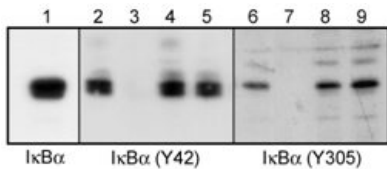
应用	Ab评论	说明
WB		1/500. Detects a band of approximately 38 kDa.

应用	Ab评论	说明
ELISA		1/2000.

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 - IκB alpha (phospho Y305) antibody (ab24784)

Western blot analysis of A431 cells treated with pervanadate (1 mM) for 30 minutes (30 ug/lane). Blots were probed with anti-IκappaBalph α (lane 1), anti-phospho-IκappaBalph α (Tyr-42) ([ab24783](#); lanes 2-5), or anti-phospho-IκappaBalph α (Tyr-305) ([ab24784](#); lanes 6-9). Both anti-phospho-IκappaBalph α (Tyr-42) and anti-phospho-IκappaBalph α (Tyr-305) were used in the presence of no blocking peptide (lane 2 & 6), phospho-IκappaBalph α (Tyr-42) peptide (lane 3 & 8), phospho-IκappaBalph α (Tyr-305) peptide (lane 4 & 7), or BSA conjugated to phospho-tyrosine (lane 5 & 9). Peptides and BSA-pTyr were used at 1 ug/ml.

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