

## Anti-IκBα (C-terminus) Antibody

Catalog # AN1814

#### **Specification**

## Anti-IκBα (C-terminus) Antibody - Product Information

Primary Accession
Reactivity
Bovine
Host
Rabbit

Clonality Rabbit Polyclonal

Isotype IgG
Calculated MW 35609

# Anti-IκBα (C-terminus) Antibody - Additional Information

Gene ID 4792

**Other Names** 

IkB, MAD3, IkappaBalpha, NFkappaB inhibitor IkBa

#### **Target/Specificity**

The NF- $\kappa$ B/Rel transcription factors are present in the cytosol in an inactive state complexed with the inhibitory IkB proteins. Activation of IkB $\alpha$  occurs through both serine and tyrosine phosphorylation events. Activation through phosphorylation at Ser-32 and Ser-36 is followed by proteasome-mediated degradation, resulting in the release and nuclear translocation of active NF- $\kappa$ B. This pathway of IkB $\alpha$  regulation occurs in response to various NF- $\kappa$ B-activating agents, such as TNF $\alpha$ , interleukins, LPS, and irradiation. An alternative pathway for IkB $\alpha$  regulation occurs through tyrosine phosphorylation of Tyr-42 and Tyr-305. Tyr-42 is phosphorylated in response to oxidative stress and growth factors. This phosphorylation can lead to degradation of IkB $\alpha$  and NF- $\kappa$ B-activation. In contrast, Tyr-305 phosphorylation by c-Abl has been implicated in IkB $\alpha$  nuclear translocation and inhibition of NF- $\kappa$ B-activation. Thus, tyrosine phosphorylation of IkB $\alpha$  may be an important regulatory mechanism in NF- $\kappa$ B signaling.

### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

# **Precautions**

Anti-IkB $\alpha$  (C-terminus) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Shipping

Blue Ice

## Anti-IκBα (C-terminus) Antibody - Protocols

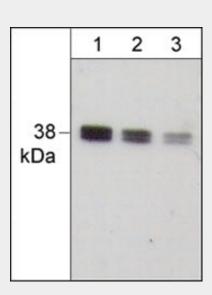
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides



- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# Anti-IκBα (C-terminus) Antibody - Images



Western blot image of human A431. The Blots were probed with anti-IkB $\alpha$  (C-term.) polyclonal antibody at a dilution of 1:500 (lane 1), 1:1000 (lane 2), and 1:2000 (lane 3).

### Anti-IκBα (C-terminus) Antibody - Background

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# Anti-IκBα (C-terminus) Antibody - Citations

• Factor L2 ameliorates the Progression of K/BxN Serum-Induced Arthritis by Blocking TLR7 Mediated IRAK4/IKKB/IRF5 and NF-kB Signaling Pathways