

**anti-Ikappa B alpha**

Cat #: HM1241  
Rabbit polyclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

NF-κB transcription factors are a family of structurally-related proteins that are involved in the control of a variety of cellular processes, such as growth, development, and the inflammatory response. The activity of NF-κB is tightly regulated by interaction with inhibitory IκB proteins. IκB family of proteins comprises four groups: IκB-α, IκB-β, IκB-γ, and IκB-ε. IκB proteins inactivate NFκB by trapping it in the cytoplasm. Phosphorylation of serine residues on the IκB proteins by kinases (IκBKA, or IκBKB) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NFκB complex. IκB-α and IκB-β mediate different NFκB responses. IκB-α appears to control more transient activation of NFκB in response to an inducer, while IκB-β controls a persistent response.

**SPECIFICITY**

This antibody specifically recognizes IκB- α of human, mouse and rat origin. The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

**IMMUNOGEN**

A peptide mapping at the carboxy terminus of IκB- α of human origin.

**STORAGE**

This antibody is stable for 12 months when stored at 2-8°C.

**REFERENCES**

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