Anti-IKKα

Cat #: HM1246
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 (IκBKα, or IκBKβ) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NFκB complex. IκB kinase α (IKKα), previously designated CHUK, interacts with IκB-α and specifically phosphorylates IκB-α on the sites that trigger its degradation, serines 32 and 36. IKKα appears to be critical for NFκB activation in response to proinflammatory cytokines. Phosphorylation of IκB by IKKα is stimulated by the NFκB inducing kinase (NIK), which itself is a central regulator for NFκB activation in response to TNF and IL-1.

SPECIFICITY
This antibody reacts with IKKα of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry.

Recommended dilution for Western blotting: 1:1000. Molecular Weight of IKKα: 85 kDa. Western blotting positive controls: Jurkat cell lysate.

IMMUNOGEN
A recombinant protein corresponding to the carboxy terminus of IKKα of mouse origin.

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

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