

anti-Ikappa B-ε

Cat #: HM1245
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-ε is a 45 kDa protein which has several phosphorylated forms and is primarily found complexed with Rel A and/or c-Rel.

SPECIFICITY

This antibody specifically recognizes IκB-ε of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

IMMUNOGEN

A recombinant protein corresponding to the full length human IκB-ε.

STORAGE

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

REFERENCES

1. Ghosh, S. and Baltimore, D. 1990. Activation *in vitro* to NF κB by phosphorylation of its inhibitor IκB. *Nature* 344: 678-682.
2. Kerr, L.D., Inoue, J.-I., Davis, N., Link, E., Baeuerle, P.A., Bose, H.A.J., and Verma, I.M. 1991. The Rel-associated pp40 protein prevents DNA binding of Rel and NFκB: relationship with IκB-γ, and regulation by phosphorylation. *Genes and Dev.* 5: 1464-1476.
3. Davis, N., Ghosh, S., Simmons, D.L., Tempst, P., Liou, H.-C., Baltimore, D., and Bose, H.R. 1991. Rel-associated pp40: an inhibitor of the Rel family of transcription factors. *Science* 252: 1268-1271.
4. Haskill, S., Beg, A.A., Tompkins, S.M., Morris, J.S., Yurochko, A.D., Sampson-Johannes, A., Mondal, K., Ralph, P., and Baldwin, A.S. 1991. Characterization of an immediate-early gene induced in adherent monocytes that encodes IκB-like activity. *Cell* 65: 1281-1289.
5. Inoue, J.-I., Kerr, L.D., Kakizuka, A., and Verma, I.M. 1992. IκB-γ, a 70 kd protein identical to the C-terminal half

of p110 NFκB; a new member of the IκB family. *Cell* 68: 1109-1120.

6. Thompson, J.E., Phillips, R.J., Erdjument-Bromage, H., Tempst, P., and Ghosh, S. 1995. IκB-β regulates the persistent response in biphasic activation of NFκB. *Cell* 80: 573-582.
7. Whiteside, S.T., Epinat, J.C., Rice, N.R., and Israel, A. 1997. IκB δ , a novel member of the IκB family, controls RelA and cRel NF-κB activity. *EMBO J.* 16: 1413-1426.
8. Simeonidis, S., Liang, S., Chen, G., and Thanos, D. 1997. Cloning and functional characterization of mouse IκB ε. *Proc. Natl. Acad. Sci. USA* 94: 14372-14377.

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