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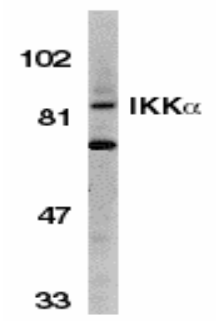
Anti-IKKα (C3)

CATALOG No.: PX133A SIZE: 100 µg
PX133B SIZE: 0.5 mg



Western blot analysis of IKKα in Jurkat whole cell lysate with anti-IKKα (C3) at 1:500 dilution.

BACKGROUND:

Nuclear factor kappa B (NF-κB) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF-κB mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNFα, and bacteria product LPS. NF-κB is associated with IκB proteins in the cell cytoplasm, which inhibit NF-κB activity. The long-sought IκB kinase (IKK), which phosphorylates IκB, and mediates IκB degradation and NF-κB activation, was recently identified by several laboratories (1-5). IKK is a serine protein kinase, and the IKK complex contains alpha and beta subunits (IKKα and IKKβ). IKKα and IKKβ interact with each other and both are essential for the NF-κB activation. IKKα specifically phosphorylates IκB-α. IKKα is expressed in a variety of human tissues.

SOURCE:

Rabbit anti-IKKα (C3) polyclonal antibody was raised against a peptide corresponding to amino acids 658 to 674 of human IKKα (1,2), which differs from corresponding murine sequence by one amino acid.

APPLICATION:

This polyclonal antibody can be used for detection of IKKα by Western blot at 1:500 to 1:1000 dilution. Whole cell lysate from Jurkat cells can be used as positive control and an 85 kDa band should be detected. It has no cross response to IKKβ or IKKγ. For research use only.

STORAGE:

It is supplied as immunoaffinity chromatography purified IgG, 100 µg in 200 µl of PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.

REFERENCES:

1. DiDonato JA, Hayakawa M, Rothwarf DM, Zandi E, Karin M. A cytokine-responsive IkappaB kinase that activates the transcription factor NF-kappaB. *Nature* 1997;388:548-54

2. Regnier CH, Song HY, Gao X, Goeddel DV, Cao Z, Rothe M. Identification and characterization of an IkappaB kinase. *Cell* 1997;90:373-83

3. Zandi E, Rothwarf DM, Delhase M, Hayakawa M, Karin M. The IkappaB kinase complex (IKK) contains two kinase subunits, IKKalpha and IKKbeta, necessary for IkappaB phosphorylation and NF-kappaB activation. *Cell* 1997;91:243-52

4. Woronicz JD, Gao X, Cao Z, Rothe M, Goeddel DY. IkappaB kinase-beta: NF-kappaB activation and complex formation with IkappaB kinase-alpha and NIK. *Science* 1997;278:866-9

5. Mercurio F, Zhu H, Murray BW, Shevchenko A, Bennett BL, Li J, Young DB, Barbosa M, Mann M, Manning A, Rao A. IKK-1 and IKK-2: cytokine-activated IkappaB kinases essential for NF-kappaB activation. *Science* 1997;278:860-6

CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.

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