

Anti-IKKa/IKK-1 (C2)

CATALOG No.: PX132A SIZE: 100 μg

PX132B SIZE: 0.5 mg

BACKGROUND:

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

SOURCE:

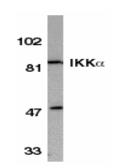
Rabbit anti-IKK α (C2) polyclonal antibody was raised against a peptide corresponding to amino acids 699 to 715 of human IKK α (1,2), which differs from corresponding murine sequence by one amino acid.

APPLICATION:

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

STORAGE:

It is supplied as immunoaffinity chromatography purified IgG, $100 \mu g$ in $200 \mu l$ of PBS containing 0.02% sodium azide. Store at $4^{\circ}C$, stable for one year.



Western blot analysis of IKK α in HeLa whole cell lysate with anti-IKK α (C2) at 1:500 dilution.

REFERENCES:

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- 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 kinasebeta: NF-kappaB activation and complex formation with IkappaB kinasealpha and NIK. *Science* 1997;278:866-9
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