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Anti-NIK (CT)

CATALOG No.: PX155A SIZE: 100 µg
PX155B SIZE: 0.5 mg

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, LPS and mitogens. A serine/threonine protein kinase which mediates NF-κB activation by IL-1, TNFα and CD95 was identified recently and designated NIK (for NF-κB inducing kinase) (1). NIK is an activator of IκB kinase alpha and beta (IKKα and IKKβ) (2-5). Therefore, NIK is a key molecule in the NF-κB signaling pathway leading to the induction of a variety of gene expression in response to proinflammatory cytokines and bacteria products.

SOURCE:

Rabbit anti-NIK polyclonal antibody was raised against a peptide corresponding to amino acids 931 to 947 of human NIK (1).

APPLICATION:

This polyclonal antibody can be used for detection of NIK by Western blot. 293 cell lysate can be used as positive control.

STORAGE:

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

RELATED PRODUCT:

Blocking peptide, 50 µg/250 µl, is available for competition studies.
293 cell lysate, 200 µg/100 µl, is available for positive control.

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;90:373-383

3. Woronicz JD, Gao X, Cao Z, Rothe M, Goeddel DV. IkappaB kinase-beta: NF-kappaB activation and complex formation with IkappaB kinase-alpha and NIK. *Science* 1997;278:866-869

4. Ling L, Cao Z, Goeddel D. NF-kappaB-inducing kinase activates IKK-alpha by phosphorylation of Ser-176. *Proc Natl Acad Sci USA* 1998;95:3792-3797

5. Nakano H, Shindo M, Sakon S, Nishinaka S, Mihara M, Yagita H, Okumura K. Differential regulation of IkappaB kinase alpha and beta by two upstream kinases, NF-kappaB-inducing kinase and mitogen-activated protein kinase/ERK kinase kinase-1. *Proc Natl Acad Sci USA* 1998;95:3537-3542

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

Cell Sciences, Inc.
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Web Site: www.cellsciences.com