

Polyclonal Antibody to NIK (CT)

Alternate names:	NFκB, NFκappaB
Catalog No.:	SP6310P
Quantity:	50 µg
Concentration:	0.5 mg/ml
Host:	Rabbit
Immunogen:	A peptide corresponding to amino acids 931 to 947 of human NIK (1).

Format: This antibody is supplied as liquid purified immunoglobulin fraction in Phosphate buffered saline with 0.02% sodium azide as preservative.

Applications: Suitable for Western blot, use 293 cell lysate as positive control. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user.
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Specificity: 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.
This antibody reacts with human NIK (CT).

Storage: Store the antibody undiluted at 4-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf life: one year from despatch.

General Readings:

1. Malinin NL, Boldin MP, Kovalenko AV, Wallach D. MAP3K-related kinase involved in NF-kappaB induction by TNF, CD95 and IL-1. *Nature*. 1997 Feb 6;385(6616):540-4. PubMed PMID: 9020361.
2. Régnier CH, Song HY, Gao X, Goeddel DV, Cao Z, Rothe M. Identification and characterization of an IκappaB kinase. *Cell*. 1997 Jul 25;90(2):373-83. PubMed PMID: 9244310.
3. Woronicz JD, Gao X, Cao Z, Rothe M, Goeddel DV. IκappaB kinase-beta: NF-kappaB activation and complex formation with IκappaB kinase-alpha and NIK. *Science*. 1997 Oct 31;278(5339):866-9. PubMed PMID: 9346485.
4. Ling L, Cao Z, Goeddel DV. NF-kappaB-inducing kinase activates IKK-alpha by

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phosphorylation of Ser-176. Proc Natl Acad Sci U S A. 1998 Mar 31;95(7):3792-7. PubMed PMID: 9520446.

5. Nakano H, Shindo M, Sakon S, Nishinaka S, Mihara M, Yagita H, et al. 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 U S A. 1998 Mar 31;95(7):3537-42. PubMed PMID: 9520401.

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