



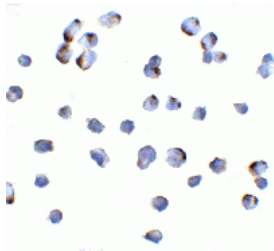
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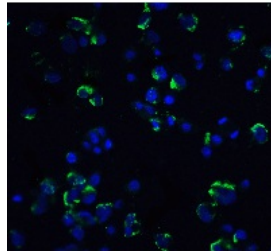
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NIK Antibody

CATALOG NUMBER: 1129



Immunocytochemistry of NIK in Hek293 cells with NIK antibody at 10 ug/mL.



Immunofluorescence of NIK in Hek293 cells with NIK antibody at 20 ug/mL.

Green: NIK Antibody (1129)
Blue: DAPI staining

Specifications

SPECIES REACTIVITY:	Human
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Mouse: (94%)
TESTED APPLICATIONS:	ELISA, ICC, IF, WB
APPLICATIONS:	NIK antibody can be used for detection of NIK by Western blot at 1 - 2 ug/mL. Antibody validated: Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1210 - HEK293 Cell Lysate
PREDICTED MOLECULAR WEIGHT:	Predicted: 104 kDa
IMMUNOGEN:	NIK antibody was raised against a 17 amino acid peptide near the carboxy terminus of human NIK. The immunogen is located within the last 50 amino acids of NIK.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	NIK Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	NIK Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	batch dependent
STORAGE CONDITIONS:	NIK antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Recombinant

CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	NIK Antibody: HS, NIK, HSNIK, FTDCR1B, Mitogen-activated protein kinase kinase kinase 14, NF-kappa-beta-inducing kinase, HsNIK
ACCESSION NO.:	Q99558
PROTEIN GI NO.:	92090612
OFFICIAL SYMBOL:	MAP3K14
GENE ID:	9020

Background

BACKGROUND:	NIK Antibody: 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 , LPS and mitogens. A serine/threonine protein kinase which mediates NF- κ B activation by IL-1, TNF α and CD95 was identified recently and designated NIK (for NF- κ B inducing kinase). NIK is an activator of I κ B kinase alpha and beta (IKK α and IKK β). Therefore, NIK is a key molecule in the NF- κ B signaling pathway leading to the induction of a variety of gene expression in response to proinflammatory cytokines and bacteria products.
REFERENCES:	1) Malinin NL, Boldin MP, Kovalenko AV, et al. MAP3K-related kinase involved in NF- κ B induction by TNF, CD95 and IL-1. <i>Nature</i> 1997; 385:540-4. 2) Regnier CH, Song HY, Gao X, et al. Identification and characterization of an I κ B kinase. <i>Cell</i> 1997; 90:373-83. 3) Woronicz JD, Gao X, Cao Z, et al. I κ B kinase- β : NF- κ B activation and complex formation with I κ B kinase- α and NIK. <i>Science</i> 1997; 278:866-9. 4) Ling L, Cao Z, and Goeddel D. NF- κ B-inducing kinase activates IKK- α by phosphorylation of Ser-176. <i>Proc. Natl. Acad. Sci. USA</i> 1998; 95:3792-7.

FOR RESEARCH USE ONLY

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