ARG54322
anti-NIK antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NIK
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NIK
Species	Human
Immunogen	Synthetic peptide corresponding to aa 931-947 of human NIK (accession no. Q99558).
Conjugation	Un-conjugated
Alternate Names	NIK; HSNIK; FTDCR1B; HS; EC 2.7.11.25; HsNIK; Serine/threonine-protein kinase NIK; NF-kappa-beta-inducing kinase; Mitogen-activated protein kinase kinase kinase 14

Application Instructions

Application table

Application	Dilution
ICC/IF	5-20 µg/mL
WB	1-2 µg/mL

Application Note: Immunoblotting: 2 - 4 ug/ml.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: NIK-transfected 293 cells.

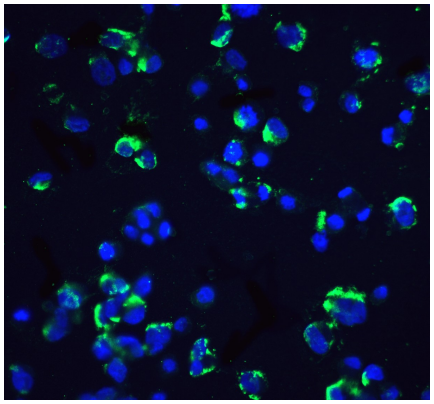
Properties

Form	Liquid
Purification	Immunoaffinity chroma-tography
Buffer	PBS (pH 7.4) and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 9020 Human Swiss-port # Q99558 Human
Gene Symbol	MAP3K14
Gene Full Name	mitogen-activated protein kinase kinase kinase 14
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 has been identified and designated NIK (for NF-κB inducing kinase). NIK is an activator of IκB kinase alpha and beta (IKKα and IKKβ). Therefore, NIK is a key molecule in the NF-κB signaling pathway leading to the expression of a variety of gene products in response to pro-inflammatory cytokines and bacterial products.
Function	Lymphotoxin beta-activated kinase which seems to be exclusively involved in the activation of NF-kappa-B and its transcriptional activity. Promotes proteolytic processing of NFKB2/P100, which leads to activation of NF-kappa-B via the non-canonical pathway. Could act in a receptor-selective manner. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Cell Death antibody; Signaling Transduction antibody
Calculated Mw	104 kDa
PTM	Autophosphorylated. Phosphorylation at Thr-559 is required to activates its kinase activity and 'Lys-63'-linked polyubiquitination. Phosphorylated by CHUK/IKKA leading to MAP3K14 destabilization. Ubiquitinated. Undergoes both 'Lys-48'- and 'Lys-63'-linked polyubiquitination. 'Lys-48'-linked polyubiquitination leads to its degradation by the proteasome, while 'Lys-63'-linked polyubiquitination stabilizes and activates it.

Images



ARG54322 anti-NIK antibody ICC/IF image

Immunofluorescence: Hek293 cells stained with ARG54322 anti-NIK antibody at 20 µg/mL.