ARG20457
anti-NIK antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NIK
Tested Reactivity	Hu, Ms, Rat, Dog, Hm
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NIK
Species	Human
Immunogen	Synthetic peptide around 927 aa of Human NIK protein (NP_003945.2)
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
WB	0.5-4 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

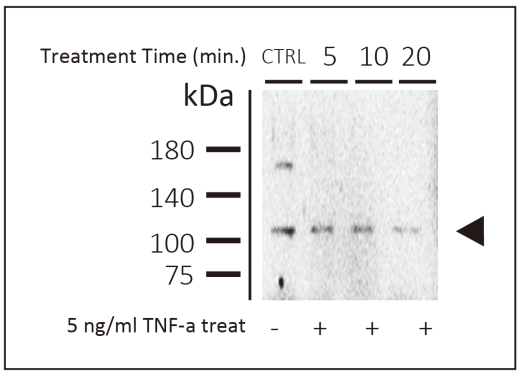
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2), 50% Glycerol, 1% BSA and 0.02% Thimerosal
Preservative	0.02% Thimerosal
Stabilizer	50% Glycerol, 1% BSA
Concentration	0.5 mg/ml
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. 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

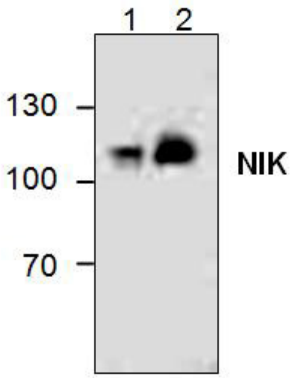
Database links	GeneID: 53859 Mouse GeneID: 9020 Human Swiss-port # Q99558 Human Swiss-port # Q9WUL6 Mouse
Gene Symbol	MAP3K14
Gene Full Name	mitogen-activated protein kinase kinase kinase 14
Background	NIK (NF-kB-inducing kinase) is a member of the MAP kinase kinase kinase family that binds TRAF2 and stimulates NF-kB activity. NIK was initially isolated from a human B cell cDNA library and contains 795 amino acids with an apparent molecular weight of slightly more than 97 kDa on SDS gel. NIK is a serine/threonine kinase and its kinase activity contributes to IkB phosphorylation. The carboxyl terminal segment of NIK binds TRAF2. A mutant NIK with intact carboxyl terminus but without the two lysine residues at its catalytic domain serves as a dominant-negative inhibitor for NF-kB activation. NIK also interacts with TRAF6 and mediates IL-1-induced NF-kB activation.
Highlight	Related products: NIK antibodies; Anti-Rabbit IgG secondary antibodies; Related poster download: The NF-kappa B Pathways.pdf
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



ARG20457 anti-NIK antibody WB image

Western blot: 30 µg of HeLa cell with no treatment (CTRL) or treat with 5 ng/ml TNF-a for 5 min, 10 min, and 20 min, respectively (5, 10, 20). The blots were stained with ARG20457 anti-NIK antibody at 1:500 dilution.



ARG20457 anti-NIK antibody WB image

Western Blot: 1, 2) Jurkat cell lysates stained with ARG20457 anti-NIK antibody.