

Rabbit Anti-MAP3K14/NFkB Inducing Kinase antibody

SL0074R

Product Name MAP3K14/NFkB Inducing Kinase

Chinese Name NFkB 诱导激酶抗体

Alias MAP3K14; NF-kappaB-Inducing Kinase; NF kappa beta inducing kinase; NF-kappa-beta-inducing kinase; NFkB Inducing Kinase NIK; HS; HSNIK; NIK; Serine/threonine-protein kinase NIK; Mitogen-activated protein kinase kinase kinase 14; MAPKKK14; FTDCR1B; NF-kappa-beta-inducing kinase; M3K14_HUMAN.

Research Area Cell biology Chromatin and nuclear signals Signal transduction Apoptosis transcriptional regulatory factor Kinases and Phosphatases

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Mouse, (predicted: Rat, Dog, Cow, Horse, Rabbit,)

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=3ug/Test

Applications (Paraffin sections need antigen repair)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 104kDa

Cellular localization cytoplasmic

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human NIK: 901-947/947

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

PubMed

[PubMed](#)

This gene encodes mitogen-activated protein kinase kinase kinase 14, which is a serine/threonine protein-kinase. This kinase binds to TRAF2 and stimulates NF-kappaB activity. It shares sequence similarity with several other MAPKK kinases. It participates in an NF-kappaB-inducing signalling cascade common to receptors of the tumour-necrosis/nerve-growth factor (TNF/NGF) family and to the interleukin-1 type-I receptor. [provided by RefSeq].

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.

Subunit:

Interacts with TRAF2, TRAF5, TRAF6, IKKA and NFKB2/P100 (By similarity). Interacts with TRAF3 and PELI3. Interacts with NIBP; the interaction is direct. Interacts with ARRB1 and ARRB2. Interacts with GRB10. Interacts with ZFP91.

Subcellular Location:

Cytoplasm.

**Product
Detail**

Tissue Specificity:

Weakly expressed in testis, small intestine, spleen, thymus, peripheral blood leukocytes, prostate, ovary and colon.

Similarity:

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily.

Contains 1 protein kinase domain.

SWISS:

Q99558

Gene ID:

9020

Database links:

[Entrez Gene: 9020](#) Human

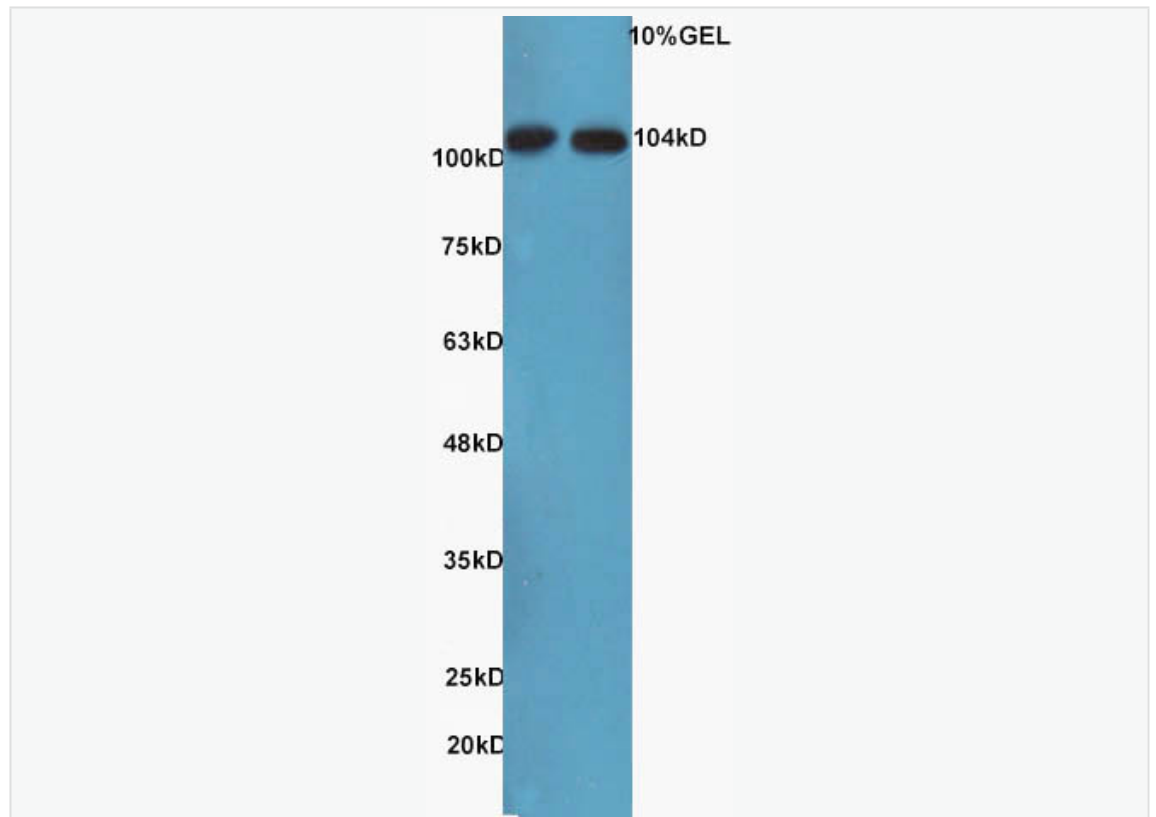
[Omim: 604655](#) Human

[SwissProt: Q99558](#) Human

[Unigene: 404183](#) Human

NIK 是一种分布和作用十分广泛的真核细胞转录因子，可被多种细胞外的刺激活化，参与 Apoptosis、炎症等多种条件下的基因调控，具有重要的生理和病理作用。

**Product
Picture**



Sample:

Kidney(Mouse) lysate at 30ug;

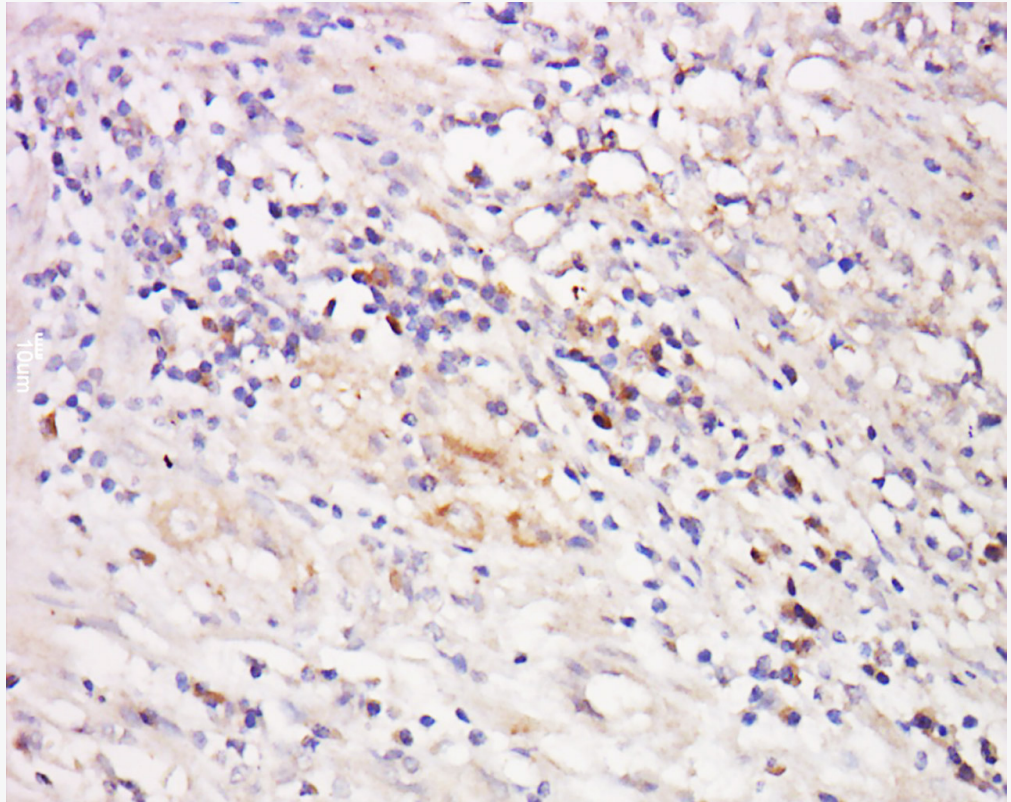
Brain(Mouse) lysate at 30ug

Primary: Anti-NFkB Inducing Kinase NIK (SL0074R) at 1:300 dilution;

Secondary: HRP conjugated Goat-Anti-Rabbit IgG(SL0295G-HRP) at 1: 5000 dilution;

Predicted band size : 104kD

Observed band size : 104kD

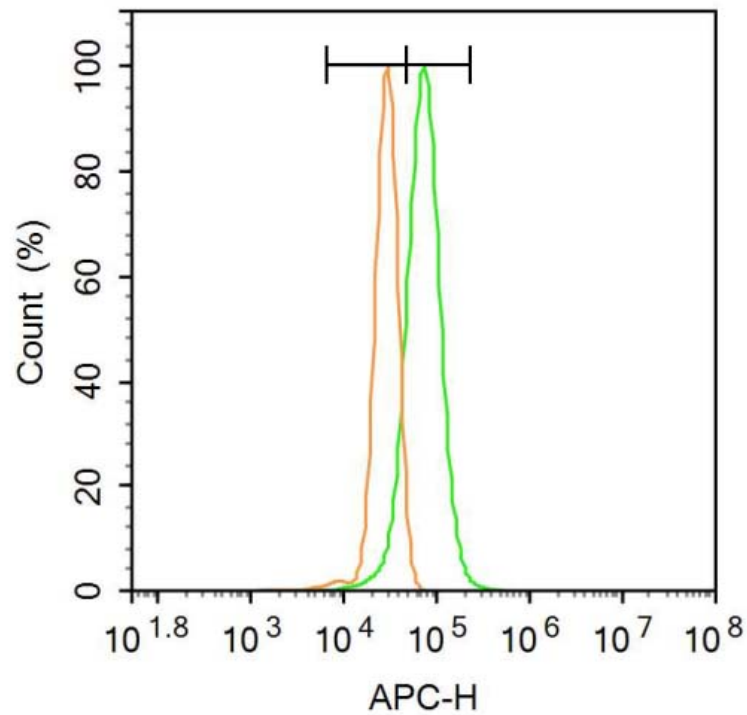


Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-HSNIK Polyclonal Antibody, Unconjugated(SL0074R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and

DAB(C-0010) staining



Blank control: A431.

Primary Antibody (green line): Rabbit Anti-NFkB Inducing Kinase NIK antibody (SL0074R)

Dilution: 1 μ g /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody: Goat anti-rabbit IgG-AF647

Dilution: 1 μ g /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.