

**NIK Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8004a**

**Specification**

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**NIK Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O95819</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	618-649

**NIK Antibody (C-term) - Additional Information**

**Gene ID** 9448

**Other Names**

Mitogen-activated protein kinase kinase kinase 4, HPK/GCK-like kinase HGK, MAPK/ERK kinase kinase kinase 4, MEK kinase kinase 4, MEKKK 4, Nck-interacting kinase, MAP4K4, HGK, KIAA0687, NIK

**Target/Specificity**

This NIK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 618-649 amino acids from the C-terminal region of human NIK.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NIK Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**NIK Antibody (C-term) - Protein Information**

**Name** MAP4K4 ([HGNC:6866](#))

**Synonyms** HGK, KIAA0687, NIK

**Function** Serine/threonine kinase that plays a role in the response to environmental stress and cytokines such as TNF-alpha. Appears to act upstream of the JUN N-terminal pathway (PubMed:[9890973](#)). Activator of the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. MAP4Ks act in parallel to and are partially redundant with STK3/MST2 and STK4/MST2 in the phosphorylation and activation of LATS1/2, and establish MAP4Ks as components of the expanded Hippo pathway (PubMed:[26437443](#)). Phosphorylates SMAD1 on Thr- 322 (PubMed:[21690388](#)).

#### Cellular Location

Cytoplasm.

#### Tissue Location

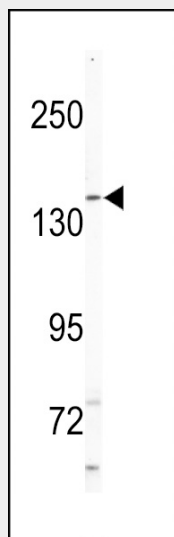
Widely expressed. Isoform 5 is abundant in the brain. Isoform 4 is predominant in the liver, skeletal muscle and placenta.

### NIK Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### NIK Antibody (C-term) - Images



Western blot analysis of anti-HGK Antibody (C-term)(Cat.#AP8004a) in jurkat cell line lysates (35ug/lane). HGK(arrow) was detected using the purified Pab.

### NIK Antibody (C-term) - Background

HGK, a member of the STE20 subfamily of Ser/Thr protein kinases, may play a role in the response to environmental stress and cytokines such as TNF-alpha. It appears to act upstream of the JUN

N-terminal pathway. This protein is thought to interact with the SH3 domain of the adapter proteins Nck. HGK binds, via its CNH regulatory domain, to the N-terminal region of SPG3A. Expression appears to be ubiquitous, expressed in all tissue types examined. Isoform 5 appears to be more abundant in the brain, and isoform 4 is predominant in the liver, skeletal muscle and placenta.

#### **NIK Antibody (C-term) - References**

Wright, J.H., et al., Mol. Cell. Biol. 23(6):2068-2082 (2003). Yao, Z., et al., J. Biol. Chem. 274(4):2118-2125 (1999). Ishikawa, K., et al., DNA Res. 5(3):169-176 (1998).

#### **NIK Antibody (C-term) - Citations**

- [Canonical nuclear factor  \$\kappa\$ B pathway links tumorigenesis of synchronous mantle-cell lymphoma, clear-cell renal-cell carcinoma, and GI stromal tumor.](#)
- [Inflexibility in intramuscular triglyceride fractional synthesis distinguishes prediabetes from obesity in humans.](#)
- [siRNA-mediated reduction of inhibitor of nuclear factor-kappaB kinase prevents tumor necrosis factor-alpha-induced insulin resistance in human skeletal muscle.](#)
- [MAP4K4 gene silencing in human skeletal muscle prevents tumor necrosis factor-alpha-induced insulin resistance.](#)