

**Anti-NGK Antibody**  
**Rabbit polyclonal antibody to NGK**  
**Catalog # AP61302**

**Specification**

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**Anti-NGK Antibody - Product Information**

Application	<b>WB, IF</b>
Primary Accession	<a href="#">O95819</a>
Other Accession	<a href="#">P97820</a>
Reactivity	<b>Human, Mouse, Rat, Pig, Bovine, Dog</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>142101</b>

**Anti-NGK Antibody - Additional Information**

**Gene ID** 9448

**Other Names**

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

**Target/Specificity**

Recognizes endogenous levels of NGK protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500)  
IF~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-NGK Antibody - 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:<a href="http://www.uniprot.org/citations/9890973" target="\_blank">9890973</a>). 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:<a href="http://www.uniprot.org/citations/26437443" target="\_blank">26437443</a>). Phosphorylates SMAD1 on Thr- 322 (PubMed:<a href="http://www.uniprot.org/citations/21690388" target="\_blank">21690388</a>).

#### Cellular Location

Cytoplasm.

#### Tissue Location

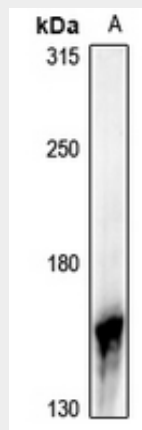
Widely expressed. Isoform 5 is abundant in the brain. Isoform 4 is predominant in the liver, skeletal muscle and placenta.

### Anti-NGK Antibody - Protocols

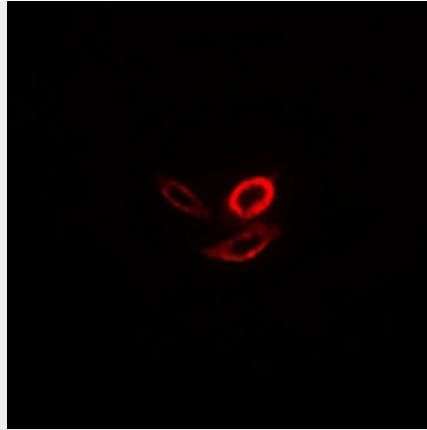
Provided below are standard protocols that you may find useful for product applications.

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

### Anti-NGK Antibody - Images



Western blot analysis of NGK expression in DLD (A) whole cell lysates.



Immunofluorescent analysis of NGK staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

#### **Anti-NGK Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NGK. The exact sequence is proprietary.