

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

Specification

Anti-NGK Antibody - Product Information

Application	WB, IF
Primary Accession	O95819
Other Accession	P97820
Reactivity	Human, Mouse, Rat, Pig, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	142101

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: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

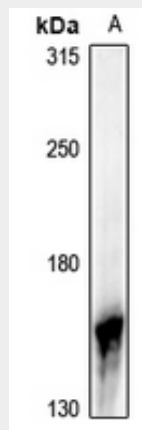
Widely expressed. Isoform 5 is abundant in the brain. Isoform 4 is predominant in the liver, skeletal muscle and placenta.

Anti-NGK Antibody - Protocols

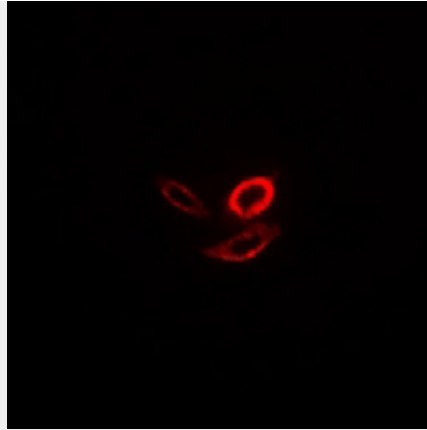
Provided below are standard protocols that you may find useful for product applications.

- [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.