

## **MAP4K4 Antibody**

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22420a

## **Specification**

## **MAP4K4 Antibody - Product Information**

Application WB,E
Primary Accession O95819
Reactivity Human
Host Rabbit
Clonality polyclonal
Isotype Rabbit Ig
Calculated MW 142101

## **MAP4K4 Antibody - Additional Information**

#### **Gene ID 9448**

#### **Other Names**

Mitogen-activated protein kinase kinase kinase kinase 4, 2.7.11.1, 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 MAP4K4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from the human region of human MAP4K4.

#### **Dilution**

WB~~1:500

E~~Use at an assay dependent concentration.

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### 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**

MAP4K4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **MAP4K4 Antibody - Protein Information**

Name MAP4K4 (<u>HGNC:6866</u>)

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**

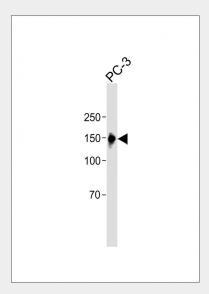
Widely expressed. Isoform 5 is abundant in the brain. Isoform 4 is predominant in the liver, skeletal muscle and placenta.

## **MAP4K4 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 Cytomety
- Cell Culture

## MAP4K4 Antibody - Images



All lanes: Anti-MAP4K4 Antibody at 1:500 dilution + PC-3 whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 150 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

#### MAP4K4 Antibody - Background

Serine/threonine kinase that may play a role in the response to environmental stress and





cytokines such as TNF-alpha. Appears to act upstream of the JUN N-terminal pathway. Phosphorylates SMAD1 on Thr- 322.

# **MAP4K4 Antibody - References**

Yao Z.,et al.J. Biol. Chem. 274:2118-2125(1999). Wright J.H.,et al.Mol. Cell. Biol. 23:2068-2082(2003). Hillier L.W.,et al.Nature 434:724-731(2005). Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases. Ishikawa K.,et al.DNA Res. 5:169-176(1998).