

MAP4K4 Antibody
Mouse Monoclonal Antibody to MAP4K4
Catalog # AO1188b**Specification**

MAP4K4 Antibody - Product Information

Application	WB
Primary Accession	O95819
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	142101

Description

MAP4K4: mitogen-activated protein kinase kinase kinase kinase 4. The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase has been shown to specifically activate MAPK8/JNK. The activation of MAPK8 by this kinase is found to be inhibited by the dominant-negative mutants of MAP3K7/TAK1, MAP2K4/MKK4, and MAP2K7/MKK7, which suggests that this kinase may function through the MAP3K7-MAP2K4-MAP2K7 kinase cascade, and mediate the TNF-alpha signaling pathway. Alternatively spliced transcript variants encoding different isoforms have been identified.

Immunogen

Purified recombinant fragment of MAP4K4(aa400-500) expressed in E. Coli.

MAP4K4 Antibody - Additional Information

Gene ID 9448

Other Names

Mitogen-activated protein kinase 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

Purified recombinant fragment of MAP4K4(aa400-500) expressed in E. Coli.

Dilution

WB~~1:500~~2000

Format

Ascitic fluid containing 0.03% sodium azide.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. 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 ([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

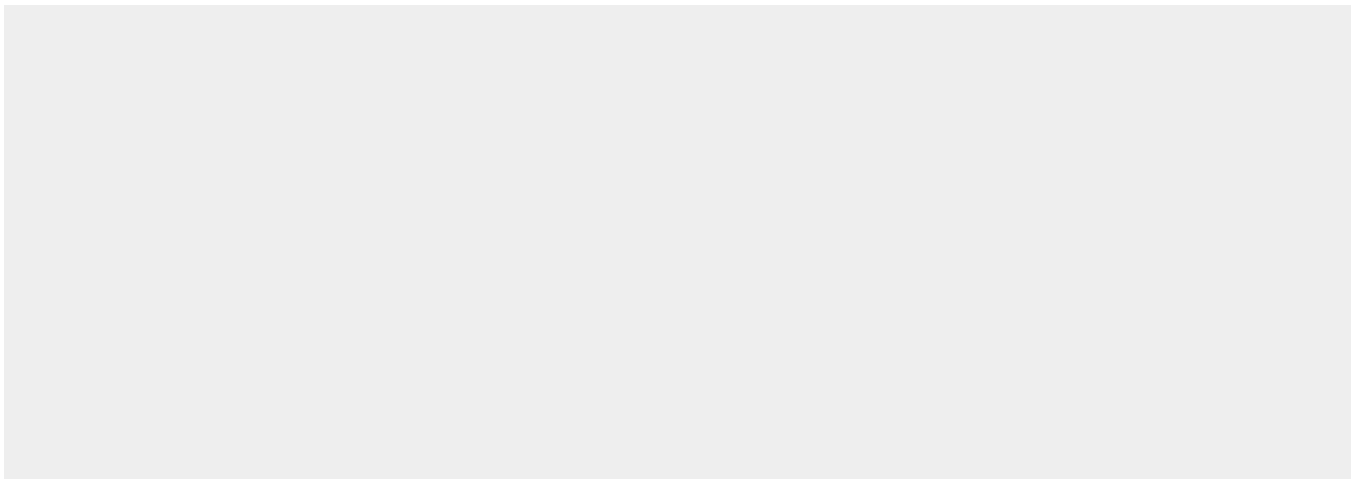
Widely expressed. Isoform 5 is abundant in the brain. Isoform 4 is predominant in the liver, skeletal muscle and placenta.

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 Cytometry](#)
- [Cell Culture](#)

MAP4K4 Antibody - Images



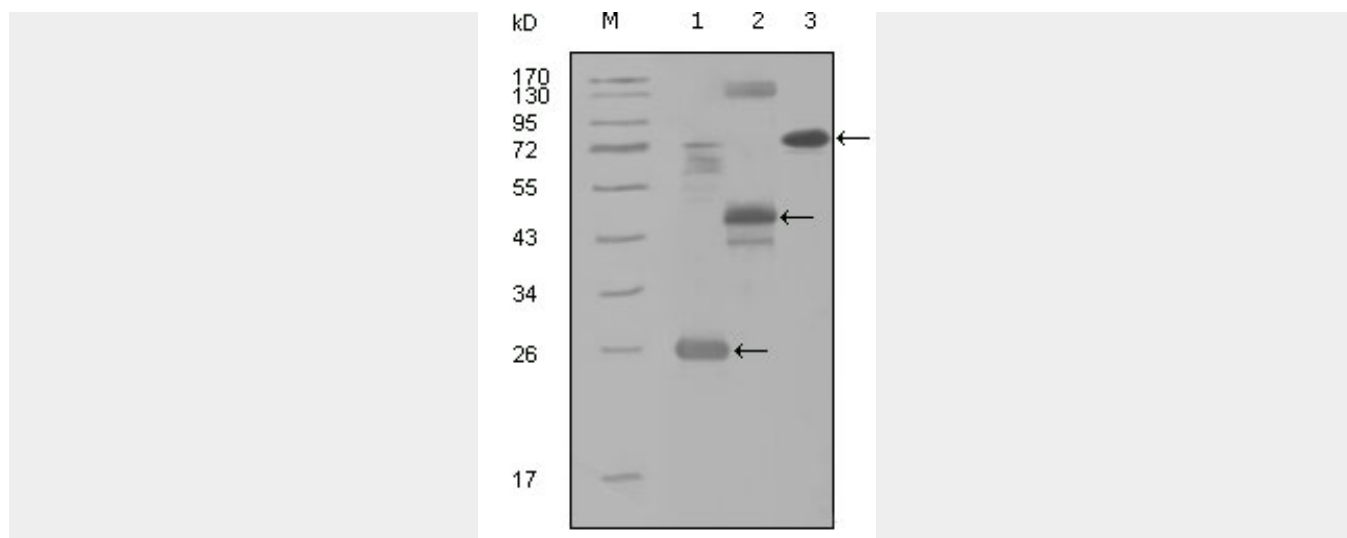


Figure 1: Western blot analysis using MAP4K4 mouse mAb against truncated Trx-MAP4K4 recombinant protein (1), MBP-MAP4K4 (aa300-400) recombinant protein (2) and MAP4K4(aa194-436)-hlgGfc transfected CHO-K1 cell lysate(3).

MAP4K4 Antibody - References

1. Mol Cell Biol. 2000 Mar;20(5):1537-45.
2. Curr Biol. 2002 Apr 16;12(8):622-31.
3. J Biol Chem. 2007 Mar 16;282(11):7783-9.