10320 Camino Santa Fe, Suite G
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MAP4K4 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1191a

Specification

MAP4K4 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	O95819
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**

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.

Formulation
Ascitic fluid containing 0.03% sodium azide.

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

Dilution
WB~~1/500 - 1/2000
IHC~~1:200~~1000

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

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Name MAP4K4

Synonyms HGK, KIAA0687, NIK

Function
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.

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

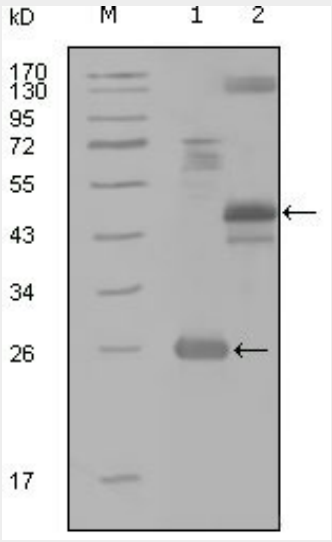


Figure 1: Western blot analysis using MAP4K4 mouse mAb against truncated Trx-MAP4K4 recombinant protein (1), MBP-MAP4K4 (aa300-400) recombinant protein (2) and MAP4K4(aa194-436)-hIgGFc transfected CH0-K1 cell lysate(3).

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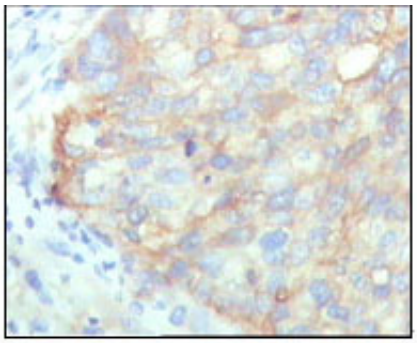


Figure 2: Immunohistochemical analysis of paraffin-embedded human cervical carcinoma, showing cytoplasmic localization with DAB staining using KARS mouse mAb.

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.