

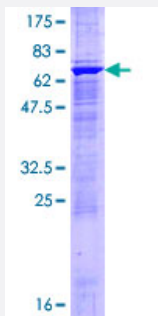
Full-Length

MAP2K4 (Human) Recombinant Protein (P01)

Catalog # H00006416-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MAP2K4 full-length ORF (AAH36032.1, 1 a.a. - 399 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAAPSPSGGGGSGGGRSGTGPVGPAPGHPAVSSMQGKRKALKLNFANPPFKSTARFTLN
PNPTGVQNPHIERLRTHSIESSGKLKISPEQHWDFTAEDLKDLGEIGRGAYGSVNKMVHKPSGQIM
AVKRIRSTVDEKEQKQLLMDLDVVMRSSDCPYVQFYGALFREGDCWICMELMSTSFDFKYKYVY
SVLDDVIPEEILGKITLATVKALNHLKENLKIHRDIKPSNILLDRSGNIKLCDFGISGQLVDSIAKTRDA
GCRPYMAPERIDPSASRQGYDVRSDVWSLGLTYELATGRFPYPKWNSVFDQLTQVVKGDPQQ
SNSEEREFSPSFINFVNLCLTKDESKRPKYKELLKHPFILMYEERAVEVACYVCKILDQMPATPSS
PMYVD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

70.8

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MAP2K4

Entrez GeneID [6416](#)

GeneBank Accession# [BC036032.1](#)

Protein Accession# [AAH36032.1](#)

Gene Name MAP2K4

Gene Alias JNKK, JNKK1, MAPKK4, MEK4, MKK4, PRKMK4, SEK1, SERK1

Gene Description mitogen-activated protein kinase kinase 4

Omim ID [601335](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a dual specificity protein kinase that belongs to the Ser/Thr protein kinase family. This kinase is a direct activator of MAP kinases in response to various environmental stresses or mitogenic stimuli. It has been shown to activate MAPK8/JNK1, MAPK9/JNK2, and MAPK14/p38, but not MAPK1/ERK2 or MAPK3/ERK3. This kinase is phosphorylated, and thus activated by MAP3K1/MEKK. The knockout studies in mice suggested the roles of this kinase in mediating survival signal in T cell development, as well as in the organogenesis of liver. [provided by RefSeq]

Other Designations JNK activating kinase 1|JNK-activated kinase 1|MAP kinase kinase 4|MAPK/ERK kinase 4|SAPK/ERK kinase 1|c-Jun N-terminal kinase kinase 1|dual specificity mitogen-activated protein kinase kinase 4

Publication Reference

- [ROS-mediated SRMS activation confers platinum resistance in ovarian cancer.](#)

Yunhan Jiang, Lina Song, Yizhu Lin, Pawel Nowialis, Qiongmei Gao, Tao Li, Bin Li, Xiaobo Mao, Qianqian Song, Chengguo Xing, Guangrong Zheng, Shuang Huang, Lingtao Jin.

Oncogene 2023 May; 42(20):1672.

Application: KA, Mass spectrometry, Stimulation, Human, ES-2, HEK293T cells

Pathway

- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [GnRH signaling pathway](#)
- [MAPK signaling pathway](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Colorectal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)