

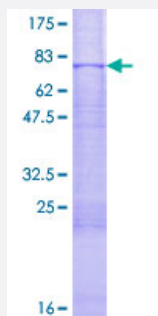
Full-Length

MAP2K7 (Human) Recombinant Protein (P01)

Catalog # H00005609-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MAP2K7 full-length ORF (AAH38295.1, 1 a.a. - 426 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAASSLEQKLSRLEAKLKQENREARRRIDLNLDISPQRPRPTLQLPLANDGGSRSPSSSESSPQHP
TPPARPRHMLGLPSTLFTPRSMESIEDQKLQEIMKQTGYLTIGGQRYQAEINDLENLGEMSGTCCG
QVWKMRFRTKGHVIKQMRSGNKEENKRILMDLDVVLKSHDCPYVQCFGTFTNTDVFAMEL
MGTCAEKLKKRMQGPPIPERILGKMTVAVKALYYLKEKHGVIHRDVKPSNILLDERGQIKLCDFGISG
RLVDSKAKTRSAGCAAYMAPERIDPPDPTKPDYDIRADVWSLGLPCSPSPQVELATGQFPYKN
CKTDFEVLTKVLQEEPPLLPGHMGFSGDFQSFVKDCLTKDHRKRPKYNNKLEHSFIKRYETLEVD
VASWFKDVMAKTESPRTSGVLSQPHLPFFR

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

74.6

Interspecies Antigen Sequence

Mouse (93); Rat (97)

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 — MAP2K7

Entrez GeneID	5609
GeneBank Accession#	BC038295.2
Protein Accession#	AAH38295.1
Gene Name	MAP2K7
Gene Alias	Jnkk2, MAPKK7, MKK7, PRKMK7
Gene Description	mitogen-activated protein kinase kinase 7
Omim ID	603014
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically activates MAPK8/JNK1 and MAPK9/JNK2, and this kinase itself is phosphorylated and activated by MAP kinase kinase kinases including MAP3K1/MEKK1, MAP3K2/MEKK2, MAP3K3/MEKK5, and MAP4K2/GCK. This kinase is involved in the signal transduction mediating the cell responses to proinflammatory cytokines, and environmental stresses. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found, but only one transcript variant has been supported and defined. [provided by RefSeq]
Other Designations	JNK kinase 2 JNK-activating kinase 2 MAP kinase kinase 7 OTTHUMP00000174397 c-Jun N-terminal kinase kinase 2 dual specificity mitogen-activated protein kinase kinase 7

Publication Reference

- [The EEF1AKMT3/MAP2K7/TP53 axis suppresses tumor invasiveness and metastasis in gastric cancer.](#)

Yo Han Hong, Nur Aziz, Jae Gwang Park, Dagyeong Lee, Jin Kyeong Kim, Seung A Kim, Wooram Choi, Chae Young Lee, Hwa Pyoung Lee, Ha Thi Huyen Trang, Han Gyung Kim, Young-Jun Jeon, Bokyoung Kim, Younghoon Kim, Kyung-Hee Kim, Byong Chul Yoo, Jeung-Whan Han, Narayana Parameswaran, Ji Hye Kim , Hoon Hur, Jae Youl Cho.

Cancer Letters 2022 Jun; 544:215803.

Application: IP, KA, Recombinant proteins

Pathway

- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [GnRH signaling pathway](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)