

Recombinant Human MAP2K5 Protein, GST-tagged

Cat. No. MAP2K5-003H Lot. No. (See product label)

SPECIFICATION

Product Overview Human MAP2K5 full-length ORF (AAH08838, 1 a.a. - 448 a.a.) recombinant protein with GST-tag at N-terminal was expressed in wheat germ.

Species Human

Source Wheat Germ

Description The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically interacts with and activates MAPK7/ERK5. This kinase itself can be phosphorylated and activated by MAP3K3/MEKK3, as well as by atypical protein kinase C isoforms (aPKCs). The signal cascade mediated by this kinase is involved in growth factor stimulated cell proliferation and muscle cell differentiation. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been described.

Molecular Mass 75.02 kDa

AA Sequence

```
MLWLALGPPFAMENQVLVIRIKIPNSGAVDWTVHSGPQLLFRDVLDVIGQVLPEATTT
AFEYEDEDGDRITVRSDEEMKAMLSYYYSTVMEQQVNGQLIEPLQIFPRACKPPGE
RNIHGLKVNTRAGPSQHSSPAVSDSLPSNSLKKSSAELKKILANGQMNEQDIRYRDT
LGHGNGGTVYKAYHVPSGKILAVKVILLDITLELQKQIMSELEILYKCDSSYIIGFYGAF
FVENRISICTEFMDGGSLDVYRKMPEHVLGRIAVAVVKGLTYLWLSKILHRDVKPSN
MLVNTRGQVKLCDFGVSTQLVNSIAKTYVGTNAYMAPERISGEQYGIHSDVWSLGIS
FMELALGRFPYPQIQKNQGSLMPLQLLQCIVDEDEDSPVLPVGESSEPFVHFITQCMRK
```

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QPKERPAPEELMGHPFIVQFNDGNAAVVSMWVCRALEERRSQQGPP

Applications

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

Notes

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

Storage

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

Storage Buffer

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

GENE INFORMATION

Gene Name

MAP2K5 mitogen-activated protein kinase kinase 5 [Homo sapiens (human)]

Official Symbol

MAP2K5

Synonyms

MAP2K5; MAPKK5; MKK5; PRKMK5; SAPKK5; SKK5; HsT17454; mitogen-activated protein kinase kinase 5; dual specificity mitogen-activated protein kinase kinase 5; MAP kinase kinase 5; MAP kinase kinase MEK5b; MAPK/ERK kinase 5; MAPKK 5; MEK 5; EC 2.7.12.2

Gene ID

5607

mRNA Refseq

NM_145160

Protein Refseq

NP_660143

MIM

602520

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UniProt ID

Q13163

**Quality Control
Testing**

12.5% SDS-PAGE Stained with Coomassie Blue.

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