

Recombinant Full Length Human MAP2K5 Protein, GST-tagged

Cat. No. MAP2K5-6842HF **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	In Vitro Cell Free System
ProteinLength	448 amino acids
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	MLWLALGPFAMENQVLVIRIKIPNSGAVDWTVHSGPQLLFRDVLVDVIGQVLPEATTT AFEYEDEDGDRITVRSDEEMKAMLSYYYSTVMEQQVNGQLIEPLQIFPRACKPPGE RNIHGLKVNTRAGPSQHSSPAVSDSLPSNSLKKSSAELKKILANGQMNEQDIRYRDT LGHGNGGTVYKAYHVPSGKILAVKVILLDITLELQKQIMSELEILYKCDSSYIIGFYGAF FVENRISICTEFMDGGSLDVYRKMPEHVLGRIAVAVVKGLTYLWLSKILHRDVKPSN MLVNTRGQVKLCDFGVSTQLVNSIAKTYVGTNAYMAPERISGEQYGIHSDVWVSLGIS

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FMELALGRFPYPQIQKNQGSLMPLQLLQCIVDEDESPVLPVGESSEPFVHFITQCMRK
QPKERPAPPEELMGHPFIVQFNDGNAAVVSMWVCRALEERRSQGGPP

Applications	<p>Enzyme-linked Immunoabsorbent Assay</p> <p>Western Blot (Recombinant protein)</p> <p>Antibody Production</p> <p>Protein Array</p>
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
UniProt ID	Q13163

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