

Recombinant Human Mitogen-activated Protein Kinase-Activated Protein Kinase 3, GST-tagged

Cat. No. MAPKAPK3-1055H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MAPKAPK3 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	MAPKAPK3 is closely related to MAPKAPK2 sharing 72% nucleotide and 75% amino acid identity. MAPKAPK3 is activated by growth inducers and stress stimulation of cells. In vitro studies demonstrated that ERK, p38 MAP kinase and Jun N-terminal kinase were all able to phosphorylate and activate this kinase, which suggested the role of MAPKAPK3 as an integrative element of signaling in both mitogen and stress responses.
Applications	Kinase Assay; Western Blot
Molecular Weight	69 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Purity	> 90%

 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

Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Activated TLR4 signalling; FAS pathway and Stress induction of HSP regulation; Immune System; MAP kinase activation in TLR cascade; MAPK signaling pathway; MyD88 cascade initiated on plasma membrane; MyD88 dependent cascade initiated on endosom; MyD88:Mal cascade initiated on plasma membrane; NFkB and MAP kinases activation mediated by TLR4 signaling repertoire; NGF signalling via TRKA from the plasma membrane; Signaling mediated by p38-alpha and p38-beta; Signalling by NGF

GENE INFORMATION

Gene Name	MAPKAPK3 mitogen-activated protein kinase-activated protein kinase 3 [Homo sapiens]
Official Symbol	MAPKAPK3
Synonyms	MAPKAPK3; mitogen-activated protein kinase-activated protein kinase 3; 3PK; MAPKAP3; MAPKAPK-3; MAP kinase-activated protein kinase 3; MAPKAP kinase 3; OTTHUMP00000210805; OTTHUMP00000210806; OTTHUMP00000210807; chromosome 3p kinase; MAPK-activated protein kinase 3; EC 2.7.11.1
Gene ID	7867
mRNA Refseq	NM_004635

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Protein Refseq	NP_004626
MIM	602130
UniProt ID	Q16644
Chromosome Location	3p21.3
Function	ATP binding; MAP kinase kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity
Renderingbased on PDB 3FHR.	