

Recombinant Human Mitogen-Activated Protein Kinase 3 (Active), GST-Tagged

Cat. No. MAPK3-1048H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MAPK3 was expressed in E.coli using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	MAPK3 is a protein serine/threonine kinase that is a member of the extracellular signal-regulated kinases (ERKs) which are activated in response to numerous growth factors and cytokines. Activation of MAPK3 requires both tyrosine and threonine phosphorylation that is mediated by MEK. MAPK3 is ubiquitously distributed in tissues with the highest expression in heart, brain and spinal cord. Activated MAPK3 translocates into the nucleus where it phosphorylates various transcription factors (e.g., Elk-1, c-Myc, c-Jun, c-Fos, and C/EBP beta).
Applications	Kinase Assay, Western Blot
Molecular Weight	72 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.

 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

Specific Activity	840 nmol/min/mg
Purity	> 90 %
Concentration	0.1 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	Acute myeloid leukemia; Adherens junction; Alzheimer"s disease; Alzheimer"s disease; B cell receptor signaling pathway; Bladder cancer; Chronic myeloid leukemia; Chemokine signaling pathway; Colorectal cancer; Dorso-ventral axis formation; Endometrial cancer; ErbB signaling pathway; Fc epsilon RI signaling pathway; Fc gamma R-mediated phagocytosis; Gap junction; Glioma; GnRH signaling pathway; Insulin signaling pathway; Long-term potentiation; Long-term depression; MAPK signaling pathway; Melanogenesis

GENE INFORMATION

Gene Name	MAPK3 mitogen-activated protein kinase 3 [Homo sapiens]
Official Symbol	MAPK3
Synonyms	MAPK3; mitogen-activated protein kinase 3; ERK1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; MGC20180; EC 2.7.11.24; Extracellular signal-regulated kinase 1; Insulin-stimulated MAP2 kinase; MAP kinase 1; Microtubule-associated protein 2 kinas; OTTHUMP00000174538; OTTHUMP00000174540; Microtubule-associated protein 2 kinase; mitogen-activated protein kinase 3

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Gene ID	5595
mRNA Refseq	NM_002746
Protein Refseq	NP_002737
MIM	601795
UniProt ID	P27361
Chromosome Location	16p11.2
Function	ATP binding; MAP kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

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