Recombinant Human Mitogen-Activated Protein Kinase Kinase Kinase 2, GST-tagged

Cat. No. MAP3K2-1258H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman full length MAP3K2, GST-tagged, is expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	MAP3K2 isa serine/threonine kinase that activates kinases involved in the MAP kinasesignaling pathway. The protein encoded by this gene is a member ofserine/threonine protein kinase family. This kinase preferentially activatesother kinases involved in the MAP kinase signaling pathway. This kinase hasbeen shown to directly phosphorylate and activate Ikappa B kinases, and thusplays a role in NF-kappa B signaling pathway. This kinase has also been foundto bind and activate protein kinase C-related kinase 2, which suggests itsinvolvement in a regulated signaling process.
Form	Liquid in50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mMDTT + 50% glycerol.
Molecular Weight	97.2 kDa
Specific Activity	355 nmoleof phosphate transferred to myelin basic protein (MBP) per minute per mg of totalprotein at 30°C. Activity determined at a final protein concentration of 1.39μg/ml in acoupled assay.

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	0.3 mg/ml
Storage	Stablefor 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	MAP3K2
nullValue_other	Function: ATP binding; MAPkinase kinase kinase activity; metal ion binding; protein kinase activity; nucleotidebinding; protein serine/tyreonine kinase activity
Full Length	Full L.

GENE INFORMATION

Gene Name	MAP3K2 mitogen-activatedprotein kinase kinase kinase 2 [Homo sapiens]
Synonyms	MAP3K2; mitogen-activatedprotein kinase kinase kinase 2; MEKK2; MAPK/ERK kinase kinase 2;MEKK2B; OTTHUMP00000203817; OTTHUMP00000203818; OTTHUMP00000203819; EC2.7.11.25; MEK kinase 2; MAPKKK2; MAP/ERK kinasekinase 2
Gene ID	10746
mRNA Refseq	NM_006609
Protein Refseq	NP_006600
MIM	609487
UniProt ID	Q9Y2U5
Chromosome	2q14.3

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

Location	
Pathway	EGFR1 SignalingPathway; ErbB1 downstream signaling; Gap junction; GnRH signaling pathway; InsulinSignaling; MAPK Cascade; MAPK signaling pathway; TNF-alpha/NF-kB SignalingPathway; Trk receptor signaling mediated by the MAPK pathway
PDB rendering basedon 2cu1.	

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