

Recombinant Human MAPKAPK2

Cat. No. MAPKAPK2-670H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAPKAPK2 (46-end) was expressed in <i>HEK 293 cells</i> .
Species	Human
Source	HEK293
ProteinLength	46-end a.a.
Description	MAPKAPK2 is a serine/threonine protein kinase activated by the p38 MAP kinase in response to various signals including mitogenic and stress stimuli. MAPKAPK2 is distinguished from the RSK family of ribosomal protein S6 kinases (also termed MAPKAPK1), which are activated by the MAP kinases, ERK1, and ERK2 based on its substrate specificity and amino acid sequence. Upon activation, p38 MAP kinase activates the downstream MAPKAPK2 by phosphorylation of the threonine residue in the Pro-Thr motif in response to heat shock or mitogenic stimuli. Activated MAPKAPK2 phosphorylates the small heat shock protein HSP25/HSP27, both in vitro and in vivo, at serine residues. Thus, HSP25/HSP27 seems to be the physiological substrate of MAPKAPK2.
Unit Definition	One unit will incorporate 1.0 nmole of phosphate into HSP 25 per minute at 30 °C at pH 7.4.
Physical Form	Solution in 50 mM Tris-HCl, pH 7.4, 100 mM NaCl, 0.05 mM EDTA, 2 mM DTT, and 10% glycerol.

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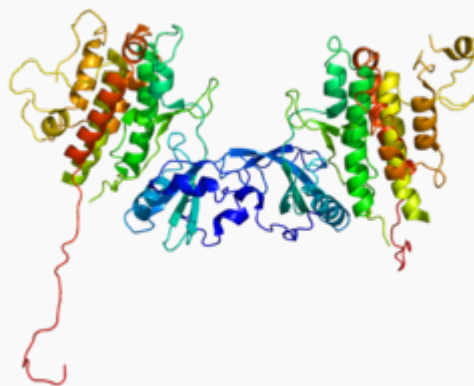
Form	Buffered aqueous glycerol solution.
Storage	-70°C. Shipped in dry ice.
GENE INFORMATION	
Gene Name	MAPKAPK2 mitogen-activated protein kinase-activated protein kinase 2 [Homo sapiens]
Synonyms	MAPKAPK2; mitogen-activated protein kinase-activated protein kinase 2; MK2; EC 2.7.11.1; MAPKAP kinase 2; MAPKAPK-2
Gene ID	9261
mRNA Refseq	NM_004759
Protein Refseq	NP_004750
MIM	602006
UniProt ID	P49137
Chromosome Location	1q32
Pathway	MAPK signaling pathway; Neurotrophin signaling pathway; VEGF signaling pathway; Signalling by NGF
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; signal transducer activity; transferase activity

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PDB rendering based
on 1kwp.



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