



# Recombinant Rat MAP kinase-activated protein kinase 3 (Mapkapk3)

<b>Product Code</b>	CSB-EP724116RA-B
<b>Abbreviation</b>	Mapkapk3
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q66H84
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MDGETAGEKG SLVPQPGALG APALGGAPAP GVRREPKKYA VTDDYQLSKQ VLGLGVNGKV LECYHRRSGQ KCALKLLYDS PKARQEVDDH WQASGGPHIV RILDVYENMH HGKRCLLIVM ECEGGELFS RIQERGDQAF TEREAAEIMR DIGTAIQFLH SQNIAHRDVK PENLLYTSKE KDAVLKLTDF GFAKETTQNA LQTPCYTPYY VAPEVLGPEK YDKSCDMWSL GVIMYILLCG FPPFYSNTGQ AISPGMKRRI RLGQYGFPKP EWADVSEDAK QLIRLLLKTD PTERLTIMQF MNHPWINQSM EVPQTPLHTA RVLEEDKDHV DDVKEEMTSA LATMRVDYDQ VKIKDLKTSN NRLLNKRRKK QGGSSSASPG CNNQ
<b>Source</b>	E.coli
<b>Target Names</b>	Mapkapk3
<b>Protein Names</b>	Recommended name: MAP kinase-activated protein kinase 3 Short name= MAPK-activated protein kinase 3 Short name= MAPKAP kinase 3 Short name= MAPKAP-K3 Short name= MAPKAPK-3 Short name= MK-3 EC= 2.7.11.1
<b>Expression Region</b>	1-384
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	This gene encodes a member of the Ser/Thr protein kinase family. This kinase functions as a mitogen-activated protein kinase (MAP kinase)- activated protein kinase. MAP kinases are also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This kinase was shown to be 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 this kinase as an integrative element of signaling in both mitogen and stress responses. This kinase was reported to interact with, phosphorylate and



repress the activity of E47, which is a basic helix-loop-helix transcription factor known to be involved in the regulation of tissue-specific gene expression and cell differentiation.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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