

## Recombinant Human RPS6KA5, GST-tagged, Active

Cat. No. RPS6KA5-359H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human MSK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW = 120 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	MSK1 or mitogen- and stress-activated protein kinase-1 contains 2 protein kinase domains and shares 43% protein sequence identity with the MAPKAPK1 isoforms. Northern blot analysis shows that MSK1 is expressed in all tissues with the highest level of expression in brain, muscle, and placenta. Immunoelectron microscopy localized MSK1 to the nucleus. MSK1 is activated in vitro and in vivo by either ERK or SAPK2 proteins. MSK1 rather than MAPKAP-K1 or MAPKAP-K2/K3, mediates activation of the cAMP response element-binding protein and activating transcription factor-1 by either growth factors or stress signals. By radiation hybrid analysis, the RPS6KA5 gene has been mapped to chromosome 14q31-q32.
<b>Sequence</b>	Full-length.
<b>Applications</b>	Kinase Assay, Western Blot.
<b>Storage And Stability</b>	Store product at -70°C. 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.

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## GENE INFORMATION

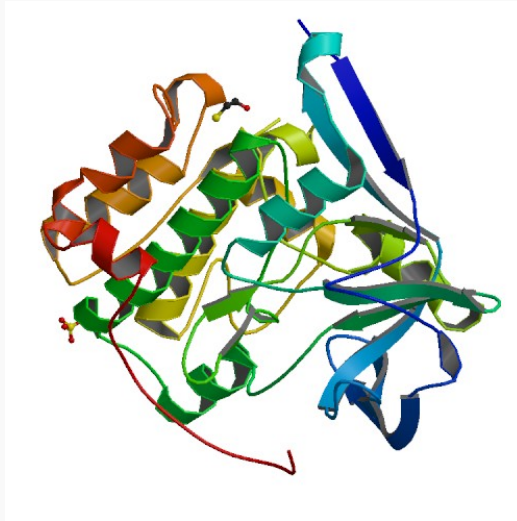
<b>Gene Name</b>	RPS6KA5 ribosomal protein S6 kinase, 90kDa, polypeptide 5 [ Homo sapiens ]
<b>Synonyms</b>	RPS6KA5; ribosomal protein S6 kinase, 90kDa, polypeptide 5; MSK1; RLPK; MSPK1; MGC1911; ribosomal protein S6 kinase, polypeptide 5; RSK-like protein kinase; nuclear mitogen- and stress-activated protein kinase 1; EC 2.7.11.1; RSKL; ribosomal protein S6 kinase, 90kD, polypeptide 5; 90 kDa ribosomal protein S6 kinase 5; Ribosomal protein S6 kinase alpha-5
<b>Gene ID</b>	9252
<b>mRNA Refseq</b>	NM_004755
<b>Protein Refseq</b>	NP_004746
<b>MIM</b>	603607
<b>UniProt ID</b>	O75582
<b>Chromosome Location</b>	14q31-q32.1
<b>Pathway</b>	Bladder cancer; MAPK signaling pathway; Neurotrophin signaling pathway
<b>Function</b>	ATP binding; magnesium ion binding; metallopeptidase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity; zinc ion binding

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