

Recombinant Human RPS6KA5, GST-tagged, Active

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

SPECIFICATION

Product Overview	Recombinant full-length human MSK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW = 120 kDa.
Species	Human
Source	Sf9 Cells
Description	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.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	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

Gene Name	RPS6KA5 ribosomal protein S6 kinase, 90kDa, polypeptide 5 [Homo sapiens]
Synonyms	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
Gene ID	9252
mRNA Refseq	NM_004755
Protein Refseq	NP_004746
MIM	603607
UniProt ID	O75582
Chromosome Location	14q31-q32.1
Pathway	Bladder cancer; MAPK signaling pathway; Neurotrophin signaling pathway
Function	ATP binding; magnesium ion binding; metalloproteinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity; zinc ion binding

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