

Recombinant Human RPS6KA1, GST-tagged, Active

Cat. No. RPS6KA1-424H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human RPS6KA1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW=108kDa.
Species	Human
Source	Sf9 Cells
Description	RSK1 is a member of the RSK (ribosomal S6 kinase) family that are growth factor-regulated serine/threonine kinases. RSK1 contains 2 nonidentical kinase catalytic domains and phosphorylates various substrates, including members of the mitogen-activated kinase (MAPK) signalling pathway. RSK1 encodes a predicted 735-amino acid protein containing 2 distinct consensus ATP-binding site sequences. RSK1 transcript is present in lymphocytes, skeletal muscle, liver, and adipose tissue. RSKs are implicated in the activation of the mitogen-activated kinase (MAPK) cascade and the stimulation of cell proliferation and differentiation.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at –70oC. 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.
nullValue_other	Long-term potentiation; MAPK signaling pathway; Neurotrophin signaling pathway;

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Progesterone-mediated oocyte maturation; mTOR signaling pathway; Signalling by NGF

GENE INFORMATION

Gene Name	RPS6KA1 ribosomal protein S6 kinase, 90kDa, polypeptide 1 [Homo sapiens]
Synonyms	RPS6KA1; ribosomal protein S6 kinase, 90kDa, polypeptide 1; S6K-alpha 1; dJ590P13.1 (ribosomal protein S6 kinase, 90kD, polypeptide 1); p90-RSK 1; ribosomal protein S6 kinase alpha 1; RSK; HU-1; RSK1; MAPKAPK1A; EC 2.7.11.1
Gene ID	6195
mRNA Refseq	NM_001006665
Protein Refseq	NP_001006666
MIM	601684
UniProt ID	Q15418
Chromosome Location	1p
Function	ATP binding; magnesium ion binding; nucleotide binding; protein binding; transferase activity; protein serine/threonine kinase activity

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