

## Recombinant Human RPS6KA1, GST-tagged, Active

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

### SPECIFICATION

|                              |  |
|------------------------------|--|
| <b>Product Overview</b>      | Recombinant full-length human RPS6KA1 was expressed by <i>baculovirus in Sf9 insect cell</i> using an N-terminal GST tag. MW=108kDa.   |
| <b>Species</b>               | Human  |
| <b>Source</b>                | Sf9 Cells  |
| <b>Description</b>           | 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. |
| <b>Sequence</b>              | Full-length.   |
| <b>Applications</b>          | Kinase Assay, Western Blot.  |
| <b>Storage And Stability</b> | 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.  |
| <b>nullValue_other</b>       | 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

|                            |   |
|----------------------------|---|
| <b>Gene Name</b>           | RPS6KA1 ribosomal protein S6 kinase, 90kDa, polypeptide 1 [ Homo sapiens ]  |
| <b>Synonyms</b>            | 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 |
| <b>Gene ID</b>             | 6195  |
| <b>mRNA Refseq</b>         | NM_001006665  |
| <b>Protein Refseq</b>      | NP_001006666  |
| <b>MIM</b>                 | 601684  |
| <b>UniProt ID</b>          | Q15418  |
| <b>Chromosome Location</b> | 1p  |
| <b>Function</b>            | ATP binding; magnesium ion binding; nucleotide binding; protein binding; transferase activity; protein serine/threonine kinase activity   |

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