

Recombinant Mouse Ribosomal Protein S6 Kinase, Polypeptide 4, GST-tagged

Cat. No. Rps6ka4-1062M Lot. No. (See product label)

SPECIFICATION

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|--------------------------|---|
| Product Overview | Recombinant full-length mouse Rps6ka4 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. |
| Species | Mouse |
| Source | Sf9 Cells |
| Description | Rps6ka4 or mitogen- and stress-activated protein kinase-2 is a member of the serine/threonine kinases family that contains 2 non-identical kinase catalytic domains and phosphorylates various substrates, including CREB1 and c-fos. Rps6ka4 is also known as ribosomal protein S6 kinase 4 (RPS6KA4) that are activated by the mitogen-activated protein kinases ERK1, ERK2, and p38. |
| Applications | Kinase Assay; Western Blot |
| Molecular Weight | 114 kDa |
| Expression System | Sf9 insect cells using baculovirus |
| Form | Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol. |
| Purity | > 95% |

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|--------------------------|---|
| Specific Activity | 9 nmol/min/mg |
| Concentration | 0.1 ug/ul |
| Sequences | full-length |
| Storage | 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. |

GENE INFORMATION

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|------------------------|--|
| Gene Name | Rps6ka4 ribosomal protein S6 kinase, polypeptide 4 [Mus musculus] |
| Official Symbol | Rps6ka4 |
| Synonyms | Rps6ka4; ribosomal protein S6 kinase, polypeptide 4; Msk2; 90kDa; mMSK2; AI848992; 1110069D02Rik; ribosomal protein S6 kinase alpha-4; RLSK; S6K-alpha-4; RSK-like protein kinase; 90 kDa ribosomal protein S6 kinase 4; mitogen- and stress-activated protein kinase-2; ribosomal protein S6 kinase, 90kD, polypeptide 4; nuclear mitogen- and stress-activated protein kinase 2; EC 2.7.11 |
| Gene ID | 56613 |
| mRNA Refseq | NM_019924 |
| Protein Refseq | NP_064308 |
| UniProt ID | Q9Z2B9 |
| Chromosome | 19A |

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Location**Pathway**

Axon guidance; Insulin Signaling; L1CAM interactions; MAPK signaling pathway; Neurotrophin signaling pathway; Recycling pathway of L1; Signal transduction by L1

Function

nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; transferase activity; transferase activity, transferring phosphorus-containing groups

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