

Recombinant Human RPS6KA3, GST-tagged, Active

Cat. No. RPS6KA3-425H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human RPS6KA3 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW=112kDa.
Species	Human
Source	Sf9 Cells
Description	RSK2 is a member of the RSK (ribosomal S6 kinase) family that are growth factor-regulated serine/threonine kinases. RSK2 has been shown to mediate growth factor signaling via RAS and MAPK leading to the induction of CREB serine-133 phosphorylation and activation of gene expression. Mutations in RSK2 have been shown to be responsible for Coffin-Lowry syndrome (CLS) which is a X-linked disorder characterized by severe psychomotor retardation, facial and digital dysmorphisms, and progressive skeletal deformations.
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; Progesterone-mediated oocyte maturation; mTOR signaling pathway; Signalling by

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NGF

GENE INFORMATION

Gene Name	RPS6KA3 ribosomal protein S6 kinase, 90kDa, polypeptide 3 [Homo sapiens]
Synonyms	RPS6KA3; ribosomal protein S6 kinase, 90kDa, polypeptide 3; CLS; RSK; HU-3; RSK2; MRX19; ISPK-1; p90-RSK2; pp90RSK2; MAPKAPK1B; S6K-alpha3; mental retardation, X-linked 19; insulin-stimulated protein kinase 1; EC 2.7.11.1
Gene ID	6197
mRNA Refseq	NM_004586
Protein Refseq	NP_004577
MIM	300075
UniProt ID	P51812
Chromosome Location	Xp22.2-p22.1
Function	ATP binding; magnesium ion binding; nucleotide binding; protein binding; transferase activity; protein serine/threonine kinase activity

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