Active Recombinant Human RPS6KA3, GST-tagged

Cat. No. RPS6KA3-153H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human RSK2 (I416V) mutant was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	RSK2 is a member of the RSK (ribosomal S6 kinase) family that consists of 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.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	The specific activity of RSK2 (I416V) was determined to be 62 nmol /min/mg
Molecular Mass	~112 kDa
Purity	>95% by densitometry
Applications	Kinase Assay, Western Blot

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Storage	Store product at –70 centigrade. 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.
Concentration	0.1 μg/μl

GENE INFORMATION

Gene Name	RPS6KA3 ribosomal protein S6 kinase, 90kDa, polypeptide 3 [Homo sapiens]
Official Symbol	RPS6KA3
Synonyms	RPS6KA3; ribosomal protein S6 kinase, 90kDa, polypeptide 3; CLS, Coffin Lowry syndrome , mental retardation, X linked 19 , MRX19, ribosomal protein S6 kinase, 90kD, polypeptide 3; ribosomal protein S6 kinase alpha-3; HU 3; RSK; RSK2; RSK-2; p90-RSK 3; MAPKAPK-1b; S6K-alpha-3; MAPKAP kinase 1b; ribosomal S6 kinase 2; MAPK-activated protein kinase 1b; insulin-stimulated protein kinase 1; MAP kinase-activated protein kinase 1b; CLS; HU-3; MRX19; ISPK-1; p90-RSK2; pp90RSK2; MAPKAPK1B; S6K-alpha3;
Gene ID	6197
mRNA Refseq	NM_004586
Protein Refseq	NP_004577
MIM	300075
UniProt ID	P51812
Chromosome	Xp22.2-p22.1

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Location	
Pathway	Activated TLR4 signalling, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Axon guidance, organism-specific biosystem; CREB phosphorylation, organism-specific biosystem; CREB phosphorylation through the activation of Ras, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; Cytoplasmic Ribosomal Proteins, organism-specific biosystem;
Function	ATP binding; cysteine-type endopeptidase inhibitor activity involved in apoptotic process; magnesium ion binding; nucleotide binding; protein kinase activity; protein serine/threonine kinase activity;

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