Recombinant Human RPS6KB1 protein, His-tagged, Unactive

Cat. No. RPS6KB1-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RPS6KB1 fused with His tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	p70S6K is responsible for the phosphorylation of 40S ribosomal protein S6 and is ubiquitously expressed in human adult tissues. p70S6K is activated by serum stimulation and this activation is inhibited by wortmannin and rapamycin. p70S6k activity undergoes changes in the cell cycle and increases 20-fold in G1 cells released from G0. p70S6K activation requires sequential phosphorylations at proline-directed residues in the putative autoinhibitory pseudosubstrate domain, as well as threonine 389 a site phosphorylated by phosphoinositide-dependent kinase 1 (PDK-1).
Form	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~76 kDa
Purity	>90%
Applications	Western Blot

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Stability	1yr at –70 centigrade from date of shipment
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 ug/ul

GENE INFORMATION

Gene Name	RPS6KB1 ribosomal protein S6 kinase, 70kDa, polypeptide 1 [Homo sapiens]
Official Symbol	RPS6KB1
Synonyms	RPS6KB1; ribosomal protein S6 kinase, 70kDa, polypeptide 1; ribosomal protein S6 kinase, 70kD, polypeptide 1 , STK14A; ribosomal protein S6 kinase beta-1; p70(S6K) alpha; PS6K; S6K1; P70S6K1; p70 S6KA; S6K-beta-1; p70 S6K-alpha; p70 S6 kinase, alpha 1; p70 S6 kinase, alpha 2; ribosomal protein S6 kinase I; serine/threonine kinase 14 alpha; serine/threonine-protein kinase 14A; 70 kDa ribosomal protein S6 kinase 1; S6K; STK14A; p70-S6K; p70-alpha; p70(S6K)-alpha;
Gene ID	6198
mRNA Refseq	NM_003161
Protein Refseq	NP_003152
MIM	608938
UniProt ID	P23443

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Chromosome Location	17q23.1
Pathway	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem; Cytoplasmic Ribosomal Proteins, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem;
Function	ATP binding; nucleotide binding; peptide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; ribosomal protein S6 kinase activity;

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