

Recombinant Human Ribosomal Protein S6 Kinase, 70kDa, Polypeptide 1, GST-tagged

Cat. No. RPS6KB1-5478H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant humanRPS6KB1 catalytic domain (amino acids 1-421), GST-tagged. Activated in vitroby His-tagged PDK1.
Species	Human
Source	Insect Cells
ProteinLength	1-421 a.a.
Description	Thisgene encodes a member of the RSK (ribosomal s6 kinase) family ofserine/threonine kinases. This kinase contains 2 non-identical kinasecatalytic domains and phosphorylates several residues of the S6 ribosomalprotein. The kinase activity of this protein leads to an increase in proteinsynthesis and cell proliferation.
Form	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.
MolecularWeight	75.1 kDa
Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	RPS6KB1
Pathways	Acute myeloidleukemia; Angiopoietin receptor Tie2-mediated signaling; B Cell

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ReceptorSignaling Pathway; CDC42 signaling events; Cytoplasmic Ribosomal Proteins;ErbB signaling pathway; Fc gamma R-mediated phagocytosis; G13 SignalingPathway; IGF1 pathway; IL-2 Signaling Pathway; IL-4 signaling Pathway; IL-6 SignalingPathway; IL2 signaling events mediated by; IL4-mediated signaling events;IRS-mediated signalling

GENE INFORMATION

Gene Name [RPS6KB1 ribosomal protein S6kinase, 70kDa, polypeptide 1 \[Homo sapiens \]](#)

Synonyms

RPS6KB1; ribosomalprotein S6 kinase, 70kDa, polypeptide 1; S6K; PS6K; S6K1; STK14A; p70-S6K;p70-alpha; p70(S6K)-alpha; ribosomal protein S6 kinase beta-1; P70S6K1;p70 S6KA; S6K-beta-1; p70 S6K-alpha; OTTHUMP00000198109; OTTHUMP00000198110;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 kDaribosomal protein S6 kinase 1; EC 2.7.11.1; Ribosomal protein S6 kinase beta-1; Ribosomal protein S6 kinase I; Serine/threonine-protein kinase14A

Gene ID [6198](#)

mRNA Refseq [NM_003161](#)

Protein Refseq [NP_003152](#)

MIM [608938](#)

UniProt ID [P23443](#)

Chromosome Location [17q23.1](#)

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Function

ATP binding;nucleotide binding; peptide binding; protein binding; protein kinaseactivity; protein serine/threonine kinase activity; ribosomal protein S6kinase activity

Rendering based onPDB 3A60.

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