

Recombinant Human RPS6KB1, His-tagged

Cat. No. RPS6KB1-29261TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 14-525 of Human S6K with N terminal His tag; Predicted MWt 59 kDa.
Species	Human
Source	E.coli
ProteinLength	14-525 a.a.
Description	This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 non-identical kinase catalytic domains and phosphorylates several residues of the S6 ribosomal protein. The kinase activity of this protein leads to an increase in protein synthesis and cell proliferation. Amplification of the region of DNA encoding this gene and overexpression of this kinase are seen in some breast cancer cell lines. Alternate translational start sites have been described and alternate transcriptional splice variants have been observed but have not been thoroughly characterized.
Conjugation	HIS
Tissue specificity	Widely expressed.
Form	Lyophilised:Reconstitute with 88 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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	phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PDFRDREAEDMAGVFDIDLDQPEDAGSEDELEEGGQLNES MDHGGVGPYELGME HCEKFEISETSVNRGPEKIRPECF ELLRVLGKGGYGKVFQVRKVTGANTGKIFAMKV LKKAM IVRNAKDTAHTKAERNILEEVKHPFIVDLIYAFQTGGK LYLILEYLSGGELFM QLEREGIFMEDTACFYLAEISMALG HLHQKGIYRDLKPENIMLNHQGHVKLTDGFLC KESIH DGTVTHTCGFTIEYMAPEILMRSGHNRAVDWWSLGALM YDMLTGAPPFTG ENRKKTIDKILKCKLNLPPYLTQEAR DLLKLLKRNAASRLGAGPGDAGEVQAHPFF RHINWEELL ARKVEPPFKPLLQSEEDVSQFDSKFTRQTPVDSRDDST LSEANQVF LGFTYVAPSVLESVKEKFSFEPKIRSPRR FIGSPRTPVSPVKFSPGDFWGRGASAST ANPQTPVEYP METSGIEQMDVTMSGEASAPLPIRQPNSSGPYKKQAFPMISKRPEHL RMNL
Sequence Similarities	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 protein kinase domain.
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;
Gene ID	6198

mRNA Refseq	NM_003161
Protein Refseq	NP_003152
MIM	608938
Uniprot ID	P23443
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;
Function	ATP binding; nucleotide binding; peptide binding; protein binding; protein kinase activity;

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