

## Recombinant Human RPS6KB1, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 14-525 of Human S6K with N terminal His tag; Predicted MWt 59 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	14-525 a.a.
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Tissue specificity</b>	Widely expressed.
<b>Form</b>	Lyophilised:Reconstitute with 88 µl aqua dest.
<b>Storage buffer</b>	Preservative: None Constituents: 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**

PDFRDREAEDMAGVFDIDLDPEDAGSEDELEEGGQLNES MDHGGVGPYELGME  
 HCEKFEISETSVNRGPEKIRPECF ELLRVLGKGGYGKVFQVRKVTGANTGKIFAMKV  
 LKKAM IVRNAKDTAHTKAERNILEEVKHPFIVDLIYAFQTGGK LYLILEYLSGGELFM  
 QLEREGIFMEDTACFYLAEISMALG HLHQKGIYRDLKPENIMLNHQGHVKLTDGFLC  
 KESIH DGTVTHTFCGTIEYMAPEILMRSGHNRAVDWWSLGALM YDMLTGAPPFTG  
 ENRKKTIDKILKCKLNLPPYLTQEAR DLLKLLKRNAASRLGAGPGDAGEVQAHPFF  
 RHINWEELL ARKVEPPFKPLLQSEEDVSQFDSKFTRQTPVDSRDDST LSEANQVF  
 LGFTYVAPSVLESVKEKFSFEPKIRSPRR FIGSPRTPVSPVKFSPGDFWGRGASAST  
 ANPQTPVEYP METSGIEQMDVTMSGEASAPLPIRQPNSGPYKKQAFPMISKRPEHL  
 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

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<b>mRNA Refseq</b>	NM_003161
<b>Protein Refseq</b>	NP_003152
<b>MIM</b>	608938
<b>Uniprot ID</b>	P23443
<b>Chromosome Location</b>	17q23.1
<b>Pathway</b>	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;
<b>Function</b>	ATP binding; nucleotide binding; peptide binding; protein binding; protein kinase activity;

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