

Product datasheet for TP317324M

S6K1 (RPS6KB1) (NM_003161) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ribosomal protein S6 kinase, 70kDa, polypeptide 1 (RPS6KB1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC217324 representing NM_003161 Red=Cloning site Green=Tags(s)
	<p>MRRRRRRDGFYPAPDFRDREAEDMAGVFDIDLDPEDAGSEDELEEGGQLNESMDHGGVGPYELGMEHCE KFEISETSVNRGPEKIRPECFELLRVLGKGGYGKVFQVRKVTGANTGKIFAMKVLKKAMIVRNAKDTAHT KAERNILEEVKHPFIVDLIYAFQTGGKLYLILEYLSGGELFMQLEREGIFMEDTACFYLAESMALGHLH QKGIYRDLKPENIMLNHQGHVKLTDGFLCKESIHDGTVTHTFCGTIEYMAPEILMRSGHNRAVDWWSLG ALMYDMLTGAPPFTGENRKKKTIDKILKCKLNLPPYLTQEARDLLKLLKRNAASRLGAGPGDAGEVQAHP FFRHINWEELLARKVEPPFKPLLQSEEDVSQFDSKFTRQTPVDSRDDSTLSEANQVFLGFTYVAPSVLE SVKEKFSFEPKIRSPRRFIGSPRTPVSPVKFSPGDFWGRGASASTANPQTPVEYPMETSGIEQMDVTMSG EASAPLPIRQPNSGPYKKQAFPMISKRPEHLRMNL</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	59 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	EMSA reaction (PMID: 27801893)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_003152](#)

Locus ID: 6198

UniProt ID: [P23443](#)

RefSeq Size: 5332

Cytogenetics: 17q23.1

RefSeq ORF: 1575

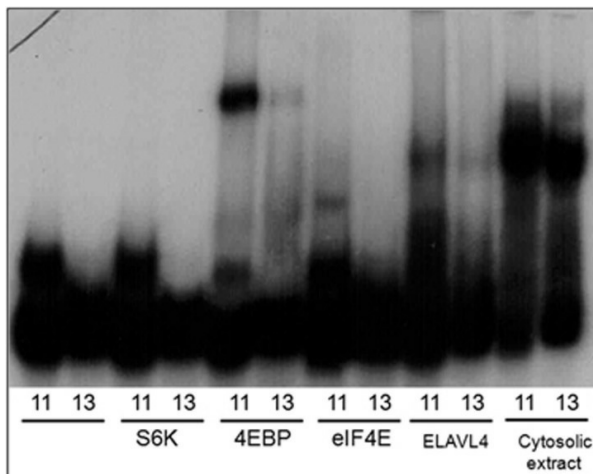
Synonyms: p70 S6KA; p70(S6K)-alpha; p70-alpha; p70-S6K; PS6K; S6K; S6K-beta-1; S6K1; STK14A

Summary: This gene encodes a member of the ribosomal S6 kinase family of serine/threonine kinases. The encoded protein responds to mTOR (mammalian target of rapamycin) signaling to promote protein synthesis, cell growth, and cell proliferation. Activity of this gene has been associated with human cancer. Alternatively spliced transcript variants have been observed. The use of alternative translation start sites results in isoforms with longer or shorter N-termini which may differ in their subcellular localizations. There are two pseudogenes for this gene on chromosome 17. [provided by RefSeq, Jan 2013]

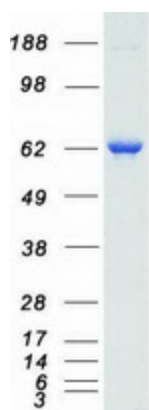
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Acute myeloid leukemia, ErbB signaling pathway, Fc gamma R-mediated phagocytosis, Insulin signaling pathway, mTOR signaling pathway, TGF-beta signaling pathway

Product images:



Audiograph of electrophoretic mobility shift assay using labeled RNA probes for the 11 and 13DNR DNR alleles, and purified candidate-binding proteins including S6K (OriGene [TP317324]). Results confirm the binding for 4E-BP, eIF4E, and ELAVL4, seen as band upshift from the unlabeled oligos. Figure cited from Transl Psychiatry, PMID: 27801893



Coomassie blue staining of purified RPS6KB1 protein (Cat# [TP317324]). The protein was produced from HEK293T cells transfected with RPS6KB1 cDNA clone (Cat# [RC217324]) using MegaTran 2.0 (Cat# [TT210002]).