

## Product datasheet for PH317324

### S6K1 (RPS6KB1) (NM\_003161) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	RPS6KB1 MS Standard C13 and N15-labeled recombinant protein (NP_003152)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217324
Predicted MW:	59 kDa
Protein Sequence:	>RC217324 representing NM_003161 Red=Cloning site Green=Tags(s)

MRRRRRRDGFYPAPDFRDREAEDMAGVFDIDLDPEDAGSEDELEEGQLNESMDHGGVGPYELGMEHCE  
KFEISETSVNRGPEKIRPECFELLRVLGKGGYGKVFQVRKVTGANTGKIFAMKVLKAMIVRNAKDTAHT  
KAERNILEEVKHPFIVDLIYAFQTGGKLYLILEYLSGGELFMQLEREGIFMEDITACFYLAEISMLGHLH  
QKGIYRDLKPENIMLNHQGHVKLTDGFLCKESIHDGTVTHTFCGTIEYMAPEILMRSGHNRAVDWWSLG  
ALMYDMLTGAPPFTGENRKKTIKILKCKLNLPPYL TQEARDLLKLLKRNAASRLGAGPGDAGEVQAHF  
FFRHINWEELLARKVEPPFKPLLQSEEDVSQFDSKFTRQTPVDSRDDSTLSEANQVFLGFTYVAPSVLE  
SVKEKFSFEPKIRSPRRFIGSPRTPVSPVKFSPGDFWGRGASASTANPQTPVEYPMETSGIEQMDVTMSG  
EASAPLPIRQPNSGPYKQAFPMISKRPEHLRMNL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003152</u>
RefSeq Size:	5332
RefSeq ORF:	1575



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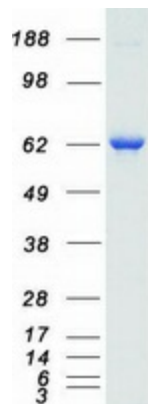
**Synonyms:** p70 S6KA; p70(S6K)-alpha; p70-alpha; p70-S6K; PS6K; S6K; S6K-beta-1; S6K1; STK14A  
**Locus ID:** 6198  
**UniProt ID:** [P23443](#)  
**Cytogenetics:** 17q23.1

**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:



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]).