

Recombinant Human RPS6KB1 Protein (Phe91-Phe352), His tagged

Cat. No. RPS6KB1-3185H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human S6K (Phe91-Phe352) protein fused with His tag was expressed in E. coli.

Species Human

Source E.coli

ProteinLength Phe91-Phe352

Description

PS6K, also known as RPS6KB1, is a serine/threonine-protein kinase. It belongs to the RSK (ribosomal s6 kinase) family. Members of this family function in signal transduction. PS6K is an isoform of p7 ribosomal S6 kinase (S6K). S6K can be activated by mitogenic stimuli such as growth factors, insulin and cytokines. It phosphorylates the ribosomal protein S6. PS6K also phosphorylates other proteins such as eIF4B, eEF2K and SKAR. It is a crucial effector of mTOR (rapamycin) signaling. PS6K is dissociated from the EIF3 complex and activated upon mitogenic stimulation, phosphorylation by the mammalian target of mTOR complex 1 (mTORC1). Its active form then phosphorylates and activates several substrates in the preinitiation complex, including the EIF2B complex and the cap-binding complex component EIF4B. PS6K also functions in cell proliferation, cell growth and cell cycle progression.

Molecular Mass 29.66 kDa

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Purity	>90 % as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	RPS6KB1 ribosomal protein S6 kinase, 70kDa, polypeptide 1 [Homo sapiens (human)]
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; P70S6K1; p70 S6KA; S6K-beta-1; p70 S6K-alpha; 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 kDa ribosomal protein S6 kinase 1; S6K; STK14A; p70-S6K; p70-alpha; p70 (S6K) -alpha;
Gene ID	6198

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mRNA Refseq	NM_003161
Protein Refseq	NP_003152
MIM	608938
UniProt ID	P23443

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