

Datasheet for ABIN7318042 **RPS6KB1 Protein (GST tag)**

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Overview

Quantity:	50 µg
Target:	RPS6KB1
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RPS6KB1 protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human PS6K/RPS6KB1 Protein (GST Tag)
Sequence:	Met 1-Leu525
Characteristics:	A DNA sequence encoding the human RPS6KB1 (P23443-Alpha I) (Met1-Leu525) was fused with the GST tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	RPS6KB1
Alternative Name:	PS6K/RPS6KB1 (RPS6KB1 Products)
Background:	Background: 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 p70 ribosomal S6 kinase (S6K). S6K can be activated by mitogenic

Target Details

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.

Synonym: p70 S6KA,p70(S6K)-alpha,p70-alpha,p70-S6K,PS6K,RPS6KB1,S6K,S6K-beta-1,S6K1,STK14A

Molecular Weight: 85.4 kDa

Pathways: [PI3K-Akt Signaling](#), [RTK Signaling](#), [AMPK Signaling](#), [Regulation of Cell Size](#), [Skeletal Muscle Fiber Development](#), [Feeding Behaviour](#), [G-protein mediated Events](#), [Smooth Muscle Cell Migration](#), [Interaction of EGFR with phospholipase C-gamma](#), [Warburg Effect](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol, 1 mM GSH

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.