

Recombinant Human RPS6, GST-tagged

Cat. No. RPS6-307H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RPS6(1 a.a. - 249 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	<p>Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a cytoplasmic ribosomal protein that is a component of the 40S subunit. The protein belongs to the S6E family of ribosomal proteins. It is the major substrate of protein kinases in the ribosome, with subsets of five C-terminal serine residues phosphorylated by different protein kinases. Phosphorylation is induced by a wide range of stimuli, including growth factors, tumor-promoting agents, and mitogens. Dephosphorylation occurs at growth arrest. The protein may contribute to the control of cell growth and proliferation through the selective translation of particular classes of mRNA. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.</p>
Molecular Mass	53.13 kDa
AA Sequence	MKLNISFPATGCQKLVDDERKLRTFYEKRMATEVAADALGEEWKGYYVVRISGGND KQGFPKQGVLTGHRVRL LLSKGHSCYRPRRTGERKRKSVRGCIVDANLSVLNLVI

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VKKGEKDIPGLTDTTVPRRLGPKRASRIRKLFNLSKE DDVRQYVVRKPLNKEGKKP
 RTKAPKIQLVTPRVLQHKRRRIALKKQRTKKNKEEAAEYAKLLAKRMKEAKEKRQ E
 QIAKRRRLSSLRASTSKSESSQK

Applications ELISA; WB-Re; AP; Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [RPS6 ribosomal protein S6 \[Homo sapiens \]](#)

Official Symbol RPS6

Synonyms RPS6; ribosomal protein S6; 40S ribosomal protein S6; phosphoprotein NP33; S6

Gene ID [6194](#)

mRNA Refseq [NM_001010](#)

Protein Refseq [NP_001001](#)

MIM [180460](#)

UniProt ID P62753

**Chromosome
Location** 9p21

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Pathway

Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S; B Cell Receptor Signaling Pathway; Cap-dependent Translation Initiation

Function

protein binding; structural constituent of ribosome; protein kinase binding

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