

Recombinant Full Length Human RPS6 Protein, GST-tagged

Cat. No. RPS6-445HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human RPS6(1 a.a. - 249 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	249 amino acids
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	MKLNISFPAT GCQKLVVDD ERKLRTFYEK RMATEVAADA LGEEWKGYYV

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RISGGNDKQG FPMKQGVLTG GRVRLLSKGG HSCYRPRRTG ERKRKSVRGC
 IVDANLSVLN LVIVKKGEKD IPGLTDTTVP RRLGPKRASR IRKLFNLSKE
 DDVRQYVVRK PLNKEGKKPR TKAPKIQRLV TPRVLQHKRR RIALKKQRTK
 KNKEEAAEYA KLLAKRMKEA KEKRQEQIAK RRRLSSLRAS TSKSESSQK

Purity	Proprietary Purification
Applications	ELISA; WB-Re; AP; Array
Storage	Store at -80 centigrade. 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

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