

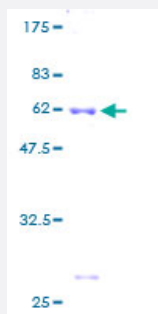
Full-Length

RPS6 (Human) Recombinant Protein (P01)

Catalog # H00006194-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human RPS6 full-length ORF (AAH00524, 1 a.a. - 249 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MKLNISFPATGCQKLEVDDERKLRTFYEKRMATEVAADALGEEWKGYVVRISGGNDKQGFPMK QGVLTHTGRVRLLSKGHSCYRPRRTGERKRKSVRGCIDANLSVLNLVVKKGKDIPGLTDTTVP RRLGPKRASRIRKLFNLSKEDDVRQYVVRKPLNKEGKKPRTKAPKIQRLVTPRVLQHKRRRIALKK QRTKKNKEEAAEYAKLLAKRMKEAKEKRQEIQAKRRRLSSLRASTSKSESSQK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	53.13
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — RPS6

Entrez GeneID [6194](#)

GeneBank Accession# [BC000524](#)

Protein Accession# [AAH00524](#)

Gene Name RPS6

Gene Alias -

Gene Description ribosomal protein S6

Omim ID [180460](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations 40S ribosomal protein S6|OTTHUMP00000021120|phosphoprotein NP33

Publication Reference

- [SILAC kinase screen identifies potential MASTL substrates.](#)

Kamila A Marzec, Samuel Rogers, Rachael McCloy, Benjamin L Parker, David E James, D Neil Watkins, Andrew Burgess.
Scientific Reports 2022 Jun; 12(1):10568.

Application: Enzyme, Human, Recombinant protein

- [Ancient Familial Mediterranean Fever Mutations in Human Pyrin and Resistance to Yersinia Pestis.](#)

Yong Hwan Park, Elaine F Remmers, Wonyong Lee, Amanda K Ombrello, Lawton K Chung, Zhao Shilei, Deborah L Stone, Maya I Ivanov, Nicole A Loeven, Karyl S Barron, Patrycja Hoffmann, Michele Nehrebecky, Yeliz Z Akkaya-Ulum, Erdal Sag, Banu Balci-Peynircioglu, Ivona Aksentijevich, Ahmet Gül, Charles N Rotimi, Hua Chen, James B Bliska, Seza Ozen, Daniel L Kastner, Daniel Shriner, Jae Jin Chae.

Nature Immunology 2020 Aug; 21(8):857.

Application: KA, WB-Re, Human, Recombinant proteins

- [Identification of a novel S6K1 inhibitor, rosmarinic acid methyl ester, for treating cisplatin-resistant cervical cancer.](#)

Nam KH, Yi SA, Nam G, Noh JS, Park JW, Lee MG, Park JH, Oh H, Lee J, Lee KR, Park HJ, Lee J, Han JW.
BMC Cancer 2019 Aug; 19(1):773.

Application: KA, PI, Recombinant protein

- [Hydroxychloroquine Destabilizes Phospho-S6 in Human Renal Carcinoma Cells.](#)

Lee HO, Mustafa A, Hudes GR, Kruger WD.

PLoS One 2015 Jul; 10(7):e0131464.

Application: IF, WB-Ce, WB-Tr, Human, RCC, ACHN, Caki-1, 769-P cells

Pathway

- [Insulin signaling pathway](#)
- [mTOR signaling pathway](#)
- [Ribosome](#)