



Ribosomal Protein S6 (1-249): sc-4426 WB

BACKGROUND

Ribosomes are the organelles that catalyze protein synthesis. Ribosomes 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. Ribosomal protein S6 (RPS6, 40S ribosomal protein S6, phosphoprotein NP33) encodes a cytoplasmic ribosomal protein that is a component of the 40S subunit. The protein belongs to the S6E family of ribosomal proteins. Ribosomal protein S6 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.

REFERENCES

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SOURCE

Ribosomal Protein S6 (1-249) is expressed in *E. coli* as a 54 kDa tagged fusion protein corresponding to amino acids 1-249 of Ribosomal Protein S6 of human origin.

PRODUCT

Ribosomal Protein S6 (1-249) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

Ribosomal Protein S6 (1-249) is suitable Western blotting control for sc-13005, sc-13007 and sc-20085.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

For research use only, not for use in diagnostic procedures.