

Ribosomal Protein S6 (m): 293T Lysate: sc-125921

BACKGROUND

The genes encoding for mammalian ribosomal proteins comprise multigene families that consist predominantly of multiple processed pseudogenes and one functional intro-containing gene within their coding regions. The rpS6 gene gives rise to Ribosomal Protein S6 (also designated RPS6). RPS6 is the major substrate of protein kinases in eukaryotic ribosomes. Sequence comparison has identified RPS6 as the equivalent of the Ribosomal Protein S10 from *Saccharomyces cerevisiae*. The sequence comparison of ribosomal proteins from evolutionarily distant eukaryotes, such as yeast and human, indicates that the structure and probably the function of RPS6 has been highly conserved.

REFERENCES

1. Lott, J.B. and Mackie, G.A. 1988. Isolation and characterization of cloned cDNAs that code for human Ribosomal Protein S6. *Gene* 65: 31-39.
2. Heinze, H., Arnold, H.H., Fischer, D. and Kruppa, J. 1988. The primary structure of the human Ribosomal Protein S6 derived from a cloned cDNA. *J. Biol. Chem.* 263: 4139-4144.
3. Gross, T., Nischt, R., Gatermann, K., Swida, U. and Kaufer, N.F. 1988. Primary structure of the ribosomal protein gene S6 from *Schizosaccharomyces pombe*. *Curr. Genet.* 13: 57-63.
4. Feo, S., Davies, B. and Fried, M. 1992. The mapping of seven intron-containing ribosomal protein genes shows they are unlinked in the human genome. *Genomics* 13: 201-207.
5. Hernandez, V.P. and Fallon, A.M. 1999. Ribosomal Protein S6 cDNA from two *Aedes* mosquitoes encodes a carboxyl-terminal extension that resembles histone H1 proteins. *Genetica* 106: 263-267.

CHROMOSOMAL LOCATION

Genetic locus: Rps6 (mouse) mapping to 4 C3.

PRODUCT

Ribosomal Protein S6 (m): 293T Lysate represents a lysate of mouse Ribosomal Protein S6 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Ribosomal Protein S6 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Ribosomal Protein S6 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.