



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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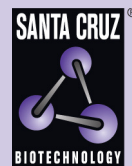
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# Ribosomal Protein S16 (h2): 293T Lysate: sc-174471

## BACKGROUND

Ribosomes, the organelles that catalyze protein synthesis, are composed of a small subunit (40S) and a large subunit (60S) that consist of over 80 distinct ribosomal proteins. Ribosomal Protein S16, also known as RPS16, is a 146 amino acid cytoplasmic protein that belongs to the S9P Ribosomal Protein family. One of several components of the 40S subunit, Ribosomal Protein S16 may play a role in ribosome assembly and translation initiation. Elevated levels of Ribosomal Protein S16 may be associated with pancreatic and breast cancer, suggesting a possible role for Ribosomal Protein S16 in tumorigenesis. Like other mammalian ribosomal proteins, Ribosomal Protein S16 exists as multiple processed pseudogenes that are found throughout the genome.

## REFERENCES

1. Batra, S.K., et al. 1991. Molecular cloning and sequence analysis of the human Ribosomal Protein S16. *J. Biol. Chem.* 266: 6830-6833.
2. Wool, I.G., et al. 1995. Structure and evolution of mammalian Ribosomal Proteins. *Biochem. Cell Biol.* 73: 933-947.
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4. Kenmochi, N., et al. 1998. A map of 75 human Ribosomal Protein genes. *Genome Res.* 8: 509-523.
5. Yoshihama, M., et al. 2002. The human Ribosomal Protein genes: sequencing and comparative analysis of 73 genes. *Genome Res.* 12: 379-390.
6. Kapp, L.D. and Lorsch, J.R. 2004. The molecular mechanics of eukaryotic translation. *Annu. Rev. Biochem.* 73: 657-704.
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8. Yu, Y., et al. 2005. Mass spectrometric analysis of the human 40S ribosomal subunit: native and HCV IRES-bound complexes. *Protein Sci.* 14: 1438-1446.
9. Ian'shina, D.D., et al. 2007. Binding of human Ribosomal Protein S16 with the 18S rRNA fragment 1203-1236/1521-1698. *Mol. Biol.* 41: 1023-1030.

## CHROMOSOMAL LOCATION

Genetic locus: RPS16 (human) mapping to 19q13.2.

## PRODUCT

Ribosomal Protein S16 (h2): 293T Lysate represents a lysate of human Ribosomal Protein S16 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## 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.

## APPLICATIONS

Ribosomal Protein S16 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Ribosomal Protein S16 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.