

# Ribosomal Protein S5 (h): 293 Lysate: sc-112957

## 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. Mammalian ribosomal proteins are encoded by multigene families that contain processed pseudogenes and one functional intron-containing gene within their coding regions. Ribosomal Protein S5, also known as RPS5, is a 204 amino acid component of the 40S complex. Localized to the cytoplasm, Ribosomal Protein S5 belongs to the S7P family of ribosomal proteins and functions in protein synthesis. Like most ribosomal proteins, Ribosomal Protein S5 exists as multiple processed pseudogenes that are scattered throughout the genome. Ribosomal Protein S5 is expressed at variable amounts in colorectal cancer cells, suggesting a possible role in carcinogenesis.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: RPS5 (human) mapping to 19q13.43.

## PRODUCT

Ribosomal Protein S5 (h): 293 Lysate represents a lysate of human Ribosomal Protein S5 transfected 293 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.

## APPLICATIONS

Ribosomal Protein S5 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive Ribosomal Protein S5 antibodies.

Recommended use: 10-20 µl per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

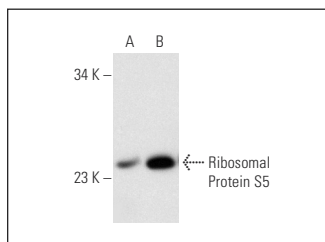
Ribosomal Protein S5 (464-J): sc-100832 is recommended as a positive control antibody for Western Blot analysis of enhanced human Ribosomal Protein S5 expression in Ribosomal Protein S5 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

- Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



Ribosomal Protein S5 (464-J): sc-100832. Western blot analysis of Ribosomal Protein S5 expression in non-transfected: sc-110760 (A) and human Ribosomal Protein S5 transfected: sc-112957 (B) 293 whole cell lysates.

## RESEARCH USE

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

## PROTOCOLS

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