

# Ribosomal Protein S25 (C-16): sc-243999

## BACKGROUND

Ribosomes, the organelles that catalyze protein synthesis, are composed of small subunit (40S) and a large subunit (60S), which, combined, 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 S25 (RPS25) is a 125 amino acid component of the 40S subunit that belongs to the Ribosomal Protein S25E family. Ribosomal Protein S25 localizes to the cell nucleus, nucleolus and cytoplasm. Like most ribosomal proteins, Ribosomal Protein S25 exists as multiple processed pseudogenes that are scattered throughout the genome. The gene encoding Ribosomal Protein S25 maps to human chromosome 11q23.3.

## REFERENCES

1. Marion, M.J. and Marion, C. 1988. Ribosomal proteins S2, S6, S10, S14, S15 and S25 are localized on the surface of mammalian 40 S subunits and stabilize their conformation. A study with immobilized trypsin. FEBS Lett. 232: 281-285.
2. Li, M.L., et al. 1991. Cloning and sequencing a cDNA encoding human ribosomal protein S25. Gene 107: 329-333.
3. Chan, Y.L. and Wool, I.G. 1992. The primary structure of rat ribosomal protein S25. Biochem. Biophys. Res. Commun. 186: 1688-1693.
4. Li, M. and Center, M.S. 1992. Regulation of ribosomal protein S25 in HL60 cells isolated for resistance to adriamycin. FEBS Lett. 298: 142-144.
5. Miwa, T., et al. 1993. Fifty sequenced-tagged sites on human chromosome 11. Genomics 17: 211-214.
6. Imai, T., et al. 1994. Assignment of the human ribosomal protein S25 gene (RPS25) to chromosome 11q23.3 by sequence analysis of the marker D11S456. Genomics 20: 142-143.
7. Kenmochi, N., et al. 1998. A map of 75 human ribosomal protein genes. Genome Res. 8: 509-523.

## CHROMOSOMAL LOCATION

Genetic locus: RPS25 (human) mapping to 11q23.3.

## SOURCE

Ribosomal Protein S25 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Ribosomal Protein S25 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-243999 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

Ribosomal Protein S25 (C-16) is recommended for detection of Ribosomal Protein S25 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Ribosomal Protein S25 (C-16) is also recommended for detection of Ribosomal Protein S25 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Ribosomal Protein S25 siRNA (h): sc-96512, Ribosomal Protein S25 shRNA Plasmid (h): sc-96512-SH and Ribosomal Protein S25 shRNA (h) Lentiviral Particles: sc-96512-V.

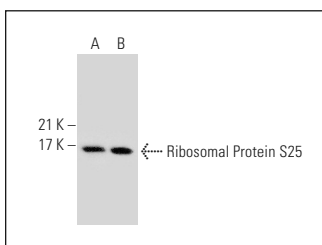
Molecular Weight of Ribosomal Protein S25: 14 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or K-562 whole cell lysate: sc-2203.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



Ribosomal Protein S25 (C-16): sc-243999. Western blot analysis of Ribosomal Protein S25 expression in Jurkat (A) and K-562 (B) whole cell lysates.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

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