

RSL24D1 (S-14): sc-324290

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. RSL24D1, also known as L30, RPL24L or HRP-L30-iso, is a 163 amino acid nuclear protein that shares a low level of similarity with Ribosomal Protein L24 (MRP-L24). Like other ribosomal proteins, RSL24D1 is involved in the biogenesis of the large 60S subunit and, during biogenesis, it is associated with nuclear and cytoplasmic pre-60S particles where it mediates proper protein docking. Once biogenesis is complete, RSL24D1 dissociates from the particles and is thought to be exchanged for Ribosomal Protein L24.

REFERENCES

1. Johnson, K.R. 1993. Characterization of cDNA clones encoding the human homologue of *Saccharomyces cerevisiae* Ribosomal Protein L30. *Gene* 123: 283-285.
2. Kenmochi, N., et al. 1998. A map of 75 human ribosomal protein genes. *Genome Res.* 8: 509-523.
3. Uechi, T., et al. 2001. A complete map of the human ribosomal protein genes: assignment of 80 genes to the cytogenetic map and implications for human disorders. *Genomics* 72: 223-230.
4. Yoshihama, M., et al. 2002. The human ribosomal protein genes: sequencing and comparative analysis of 73 genes. *Genome Res.* 12: 379-390.
5. Odintsova, T.I., et al. 2003. Characterization and analysis of posttranslational modifications of the human large cytoplasmic ribosomal subunit proteins by mass spectrometry and Edman sequencing. *J. Protein Chem.* 22: 249-258.

CHROMOSOMAL LOCATION

Genetic locus: RSL24D1 (human) mapping to 15q21.3; Rsl24d1 (mouse) mapping to 9 D.

SOURCE

RSL24D1 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RSL24D1 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-324290 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

RSL24D1 (S-14) is recommended for detection of RSL24D1 of mouse, rat and 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).

RSL24D1 (S-14) is also recommended for detection of RSL24D1 in additional species, including equine.

Suitable for use as control antibody for RSL24D1 siRNA (h): sc-90184, RSL24D1 siRNA (m): sc-141489, RSL24D1 shRNA Plasmid (h): sc-90184-SH, RSL24D1 shRNA Plasmid (m): sc-141489-SH, RSL24D1 shRNA (h) Lentiviral Particles: sc-90184-V and RSL24D1 shRNA (m) Lentiviral Particles: sc-141489-V.

Molecular Weight of RSL24D1: 18 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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.

RESEARCH USE

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

PROTOCOLS

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



Try **RSL24D1 (3H2): sc-100840**, our highly recommended monoclonal alternative to RSL24D1 (S-14).