

RSL24D1 (h): 293T Lysate: sc-113780

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., Kawaguchi, T., Rozen, S., Davis, E., Goodman, N., Hudson, T.J., Tanaka, T. and Page, D.C. 1998. A map of 75 human ribosomal protein genes. *Genome Res.* 8: 509-523.
3. Uechi, T., Tanaka, T. and Kenmochi, N. 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., Uechi, T., Asakawa, S., Kawasaki, K., Kato, S., Higa, S., Maeda, N., Minoshima, S., Tanaka, T., Shimizu, N. and Kenmochi, N. 2002. The human ribosomal protein genes: sequencing and comparative analysis of 73 genes. *Genome Res.* 12: 379-390.
5. Odintsova, T.I., Müller, E.C., Ivanov, A.V., Egorov, T.A., Bienert, R., Vladimirov, S.N., Kostka, S., Otto, A., Wittmann-Liebold, B. and Karpova, G.G. 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.

PRODUCT

RSL24D1 (h): 293T Lysate represents a lysate of human RSL24D1 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.

PROTOCOLS

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

APPLICATIONS

RSL24D1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive RSL24D1 antibodies. Recommended use: 10-20 µl per lane.

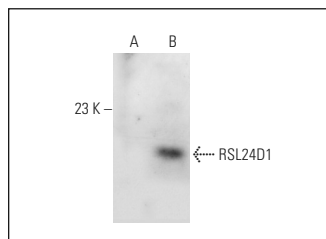
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RSL24D1 (3H2): sc-100840 is recommended as a positive control antibody for Western Blot analysis of enhanced human RSL24D1 expression in RSL24D1 transfected 293T 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:
1) 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



RSL24D1 (3H2): sc-100840. Western blot analysis of RSL24D1 expression in non-transfected: sc-117752 (A) and human RSL24D1 transfected: sc-113780 (B) 293T whole cell lysates.

RESEARCH USE

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