

Ribosomal Protein L36 (T-13): sc-162095

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 multi-gene families that contain processed pseudogenes and one functional intron-containing gene within their coding regions. Ribosomal Protein L36, also known as 60S Ribosomal protein L36, RPL36 or L36, is a 105 amino acid protein that belongs to the Ribosomal protein L36e family. A component of the 60S subunit, Ribosomal Protein L36 localized to the cytoplasm. Ribosomal Protein L36 exists as multiple processed pseudogenes that are scattered throughout the genome. In the mycoparasitic fungus, *Trichoderma hamatum*, Ribosomal Protein L36 is tightly regulated by carbon and nitrogen availability.

REFERENCES

- Hori, N., Murakawa, K., Matoba, R., Fukushima, A., Okubo, K. and Matsubara, K. 1993. A new human ribosomal protein sequence, homologue of rat L9. *Nucleic Acids Res.* 21: 4395.
- Mazuruk, K., Schoen, T.J., Chader, G.J., Iwata, T. and Rodriguez, I.R. 1996. Structural organization and chromosomal localization of the human ribosomal protein L9 gene. *Biochim. Biophys. Acta* 1305: 151-162.
- 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.
- Fekete, C., Posta, K. and Hornok, L. 2001. Primary structure and transcription patterns of RPL36, a ribosomal protein-encoding gene of the mycoparasitic fungus, *Trichoderma hamatum*. *Curr. Genet.* 39: 183-189.
- Angelastro, J.M., Töröcsik, B. and Greene, L.A. 2002. Nerve growth factor selectively regulates expression of transcripts encoding ribosomal proteins. *BMC Neurosci.* 3: 3.
- 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.
- Aimi, T., Fukuhara, S., Ishiguro, M., Kitamoto, Y. and Morinaga, T. 2004. Primary structure of dihydrofolate reductase and mitochondrial ribosomal protein L36 genes from the basidiomycete *Coprinus cinereus*. *DNA Seq.* 15: 291-298.

CHROMOSOMAL LOCATION

Genetic locus: RPL36 (human) mapping to 19p13.3; Rpl36 (mouse) mapping to 17 D.

SOURCE

Ribosomal Protein L36 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Ribosomal Protein L36 of human origin.

RESEARCH USE

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

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-162095 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Ribosomal Protein L36 (T-13) is recommended for detection of Ribosomal Protein L36 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); non cross-reactive with Ribosomal Protein L36a or Ribosomal Protein L36aL.

Ribosomal Protein L36 (T-13) is also recommended for detection of Ribosomal Protein L36 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for Ribosomal Protein L36 siRNA (h): sc-97541, Ribosomal protein L36 siRNA (m): sc-152916, Ribosomal Protein L36 shRNA Plasmid (h): sc-97541-SH, Ribosomal protein L36 shRNA Plasmid (m): sc-152916-SH, Ribosomal Protein L36 shRNA (h) Lentiviral Particles: sc-97541-V and Ribosomal protein L36 shRNA (m) Lentiviral Particles: sc-152916-V.

Molecular Weight of Ribosomal Protein L36: 12 kDa.

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.

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 or our catalog for detailed protocols and support products.