

Ribosomal Protein L9 (T-17): sc-102085

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 L9, also known as RPL9, is a 192 amino acid protein that is a component of the 60S subunit. Localized to the cytoplasm and expressed ubiquitously, Ribosomal Protein L9 belongs to the L6P family of ribosomal proteins and functions in protein synthesis. Like most ribosomal proteins, Ribosomal Protein L9 exists as multiple processed pseudogenes that are scattered throughout the genome. Due to alternative splicing events, Ribosomal Protein L9 is expressed as two isoforms.

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.
- 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.
- Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 603686. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: RPL9 (human) mapping to 4p14; Rpl9 (mouse) mapping to 5 C3.1.

SOURCE

Ribosomal Protein L9 (T-17) is a purified rabbit polyclonal antibody raised against a C-terminal region of Ribosomal Protein L9 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

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

APPLICATIONS

Ribosomal Protein L9 (T-17) is recommended for detection of Ribosomal Protein L9 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Ribosomal Protein L9 (T-17) is also recommended for detection of Ribosomal Protein L9 in additional species, including equine, bovine, porcine and canine.

Suitable for use as control antibody for Ribosomal Protein L9 siRNA (h): sc-89182, Ribosomal Protein L9 siRNA (m): sc-152928, Ribosomal Protein L9 shRNA Plasmid (h): sc-89182-SH, Ribosomal Protein L9 shRNA Plasmid (m): sc-152928-SH, Ribosomal Protein L9 shRNA (h) Lentiviral Particles: sc-89182-V and Ribosomal Protein L9 shRNA (m) Lentiviral Particles: sc-152928-V.

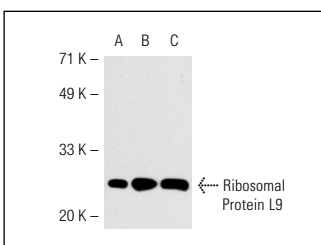
Molecular Weight of Ribosomal Protein L9: 22 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or Ribosomal Protein L9 (m): 293T Lysate: sc-123162.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



Ribosomal Protein L9 (T-17): sc-102085. Western blot analysis of Ribosomal Protein L9 expression in non-transfected 293T: sc-117752 (A), mouse Ribosomal Protein L9 transfected 293T: sc-123162 (B) and HeLa (C) whole cell lysates.

RESEARCH USE

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

MONOS
Satisfaction
Guaranteed

Try **Ribosomal Protein L9 (ST-7): sc-100828**, our highly recommended monoclonal alternative to Ribosomal Protein L9 (T-17).