

# Ribosomal Protein L17 (S-16): sc-87395

## 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 L17, also known as RPL17, rpl23, PD-1 or 60S Ribosomal protein L17, is a 184 amino acid protein that is expressed in pancreas, lung, colon, cystic duct, gall bladder, kidney and liver and belongs to the ribosomal protein L22P family. Localized to the cytoplasm, it has been suggested that Ribosomal protein L17 may influence sexual differentiation of Area X and RA, potentially regulating the genesis and/or survival of neurons of juvenile zebra finches.

## REFERENCES

1. Wool, I.G., Chan, Y.L. and Glück, A. 1995. Structure and evolution of mammalian ribosomal proteins. *Biochem. Cell Biol.* 73: 933-947.
2. Frigerio, J.M., Dagorn, J.C. and Iovanna, J.L. 1995. Cloning, sequencing and expression of the L5, L21, L27a, L28, S5, S9, S10 and S29 human ribosomal protein mRNAs. *Biochim. Biophys. Acta* 1262: 64-68.
3. 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.
4. Kusuda, J., Hirai, M., Tanuma, R., Hirata, M. and Hashimoto, K. 1999. Genomic structure and chromosome location of RPL27A/Rpl27a, the genes encoding human and mouse ribosomal protein L27A. *Cytogenet. Cell Genet.* 85: 248-251.
5. Bortoluzzi, S., d'Alessi, F., Romualdi, C. and Danieli, G.A. 2001. Differential expression of genes coding for ribosomal proteins in different human tissues. *Bioinformatics* 17: 1152-1157.
6. Mazumder, B., Sampath, P., Seshadri, V., Maitra, R.K., DiCorleto, P.E. and Fox, P.L. 2003. Regulated release of L13a from the 60S ribosomal subunit as a mechanism of transcript-specific translational control. *Cell* 115: 187-198.
7. Kapp, L.D. and Lorsch, J.R. 2004. The molecular mechanics of eukaryotic translation. *Annu. Rev. Biochem.* 73: 657-704.
8. Tang, Y.P. and Wade, J. 2006. Sexually dimorphic expression of the genes encoding ribosomal proteins L17 and L37 in the song control nuclei of juvenile zebra finches. *Brain Res.* 1126: 102-108.

## CHROMOSOMAL LOCATION

Genetic locus: RPL17 (human) mapping to 18q21.1; Rpl17 (mouse) mapping to 18 E3.

## SOURCE

Ribosomal Protein L17 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Ribosomal Protein L17 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-87395 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Ribosomal Protein L17 (S-16) is recommended for detection of Ribosomal Protein L17 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).

Ribosomal Protein L17 (S-16) is also recommended for detection of Ribosomal Protein L17 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Ribosomal Protein L17 siRNA (h): sc-76399, Ribosomal Protein L17 siRNA (m): sc-152898, Ribosomal Protein L17 shRNA Plasmid (h): sc-76399-SH, Ribosomal Protein L17 shRNA Plasmid (m): sc-152898-SH, Ribosomal Protein L17 shRNA (h) Lentiviral Particles: sc-76399-V and Ribosomal Protein L17 shRNA (m) Lentiviral Particles: sc-152898-V.

Molecular Weight of Ribosomal Protein L17: 22 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](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **Ribosomal Protein L17 (3G11): sc-517047**, our highly recommended monoclonal alternative to Ribosomal Protein L17 (S-16).