

Ribosomal Protein L17 (3G11): sc-517047

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

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3. Kenmochi, N., et al. 1998. A map of 75 human ribosomal protein genes. *Genome Res.* 8: 509-523.
4. Kusuda, J., et al. 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., et al. 2001. Differential expression of genes coding for ribosomal proteins in different human tissues. *Bioinformatics* 17: 1152-1157.
6. Mazumder, B., et al. 2003. Regulated release of L13a from the 60S ribosomal subunit as a mechanism of transcript-specific translational control. *Cell* 115: 187-198.
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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 (3G11) is a mouse monoclonal antibody raised against amino acids 1-184 representing full length Ribosomal Protein L17 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Ribosomal Protein L17 (3G11) 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), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

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.

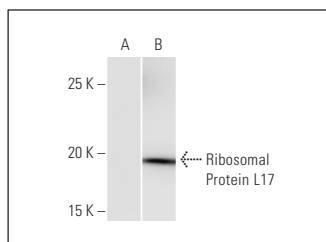
Molecular Weight of Ribosomal Protein L17: 22 kDa.

Positive Controls: Ribosomal Protein L17 transfected 293T whole cell lysate.

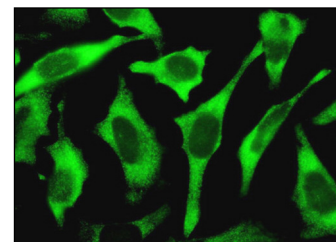
RECOMMENDED SUPPORT REAGENTS

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, 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 L17 (3G11): sc-517047. Western blot analysis of Ribosomal Protein L17 expression in non-transfected (A) and Ribosomal Protein L17 transfected (B) 293T whole cell lysates.



Ribosomal Protein L17 (3G11): sc-517047. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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