

# Ribosomal Protein L39L (FB-09): sc-100841

## 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 L39L, also known as RPL39L, RPL39L1 or RPL-2, is a 51 amino acid protein that is highly similar (92% amino acid identity) to Ribosomal Protein L39, a component of the 60S subunit. Due to the lack of introns in its coding region, the gene encoding Ribosomal Protein L39L was likely retrotransposed from the X-linked Ribosomal Protein L39 gene. Specifically expressed in testis but also found in various cancer tissues, Ribosomal Protein L39L belongs to the L39e family of ribosomal proteins and may play a role in protein synthesis.

## REFERENCES

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- Marygold, S.J., Roote, J., Reuter, G., Lambertsson, A., Ashburner, M., Millburn, G.H., Harrison, P.M., Yu, Z., Kenmochi, N., Kaufman, T.C., Leivers, S.J. and Cook, K.R. 2007. The ribosomal protein genes and Minute loci of *Drosophila melanogaster*. *Genome Biol.* 8: R216.

## CHROMOSOMAL LOCATION

Genetic locus: RPL39L (human) mapping to 3q27.3; Rpl39l (mouse) mapping to 16 A1.

## SOURCE

Ribosomal Protein L39L (FB-09) is a mouse monoclonal antibody raised against recombinant Ribosomal Protein L39L of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## 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 L39L (FB-09) is recommended for detection of Ribosomal Protein L39L 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), immunohistochemistry (including paraffin-embedded sections) (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 L39L siRNA (h): sc-77969, Ribosomal Protein L39L siRNA (m): sc-153107, Ribosomal Protein L39L shRNA Plasmid (h): sc-77969-SH, Ribosomal Protein L39L shRNA Plasmid (m): sc-153107-SH, Ribosomal Protein L39L shRNA (h) Lentiviral Particles: sc-77969-V and Ribosomal Protein L39L shRNA (m) Lentiviral Particles: sc-153107-V.

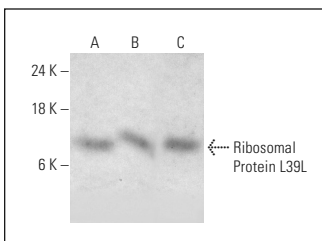
Molecular Weight of RPL39L: 6 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209, Hs 181 Tes whole cell lysate: sc-364779 or AMJ2-C8 whole cell lysate: sc-364366.

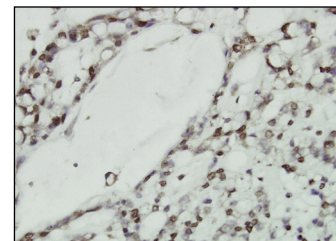
## RECOMMENDED SUPPORT REAGENTS

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

## DATA



Ribosomal Protein L39L (FB-09): sc-100841. Western blot analysis of Ribosomal Protein L39L expression in HL-60 (A), Hs 181 Tes (B) and AMJ2-C8 (C) whole cell lysates.



Ribosomal Protein L39L (FB-09): sc-100841. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human ovary, clear cell carcinoma tissue showing nuclear and cytoplasmic localization.

## RESEARCH USE

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