

Ribosomal Protein L13A (C-11): sc-160039

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 L13A, also known as RPL13A or 23 kDa highly basic protein, is a 203 amino acid cytoplasmic protein that belongs to the ribosomal protein L13P family. A component of the 60S subunit, Ribosomal Protein L13A exists as multiple processed pseudogenes that are scattered throughout the genome. The gene encoding Ribosomal Protein L13A maps to human chromosome 19q13.33.

REFERENCES

1. Wool, I.G., et al. 1995. Structure and evolution of mammalian ribosomal proteins. *Biochem. Cell Biol.* 73: 933-947.
2. Kenmochi, N., et al. 1998. A map of 75 human ribosomal protein genes. *Genome Res.* 8: 509-523.
3. Higa, S., et al. 1999. Gene organization and sequence of the region containing the ribosomal protein genes RPL13A and RPS11 in the human genome and conserved features in the mouse genome. *Gene* 240: 371-377.
4. 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.
5. Kapp, L.D., et al. 2004. The molecular mechanics of eukaryotic translation. *Annu. Rev. Biochem.* 73: 657-704.

CHROMOSOMAL LOCATION

Genetic locus: RPL13A (human) mapping to 19q13.33; Rpl13a (mouse) mapping to 7 B4.

SOURCE

Ribosomal Protein L13A (C-11) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Ribosomal Protein L13A of human origin.

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-160039 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

Ribosomal Protein L13A (C-11) is recommended for detection of Ribosomal Protein L13A 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); non cross-reactive with other Ribosomal Protein family members.

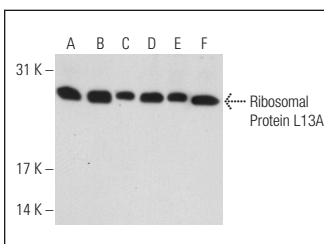
Ribosomal Protein L13A (C-11) is also recommended for detection of Ribosomal Protein L13A in additional species, including equine, canine and porcine.

Suitable for use as control antibody for Ribosomal Protein L13A siRNA (h): sc-97893, Ribosomal Protein L13A siRNA (m): sc-152895, Ribosomal Protein L13A shRNA Plasmid (h): sc-97893-SH, Ribosomal Protein L13A shRNA Plasmid (m): sc-152895-SH, Ribosomal Protein L13A shRNA (h) Lentiviral Particles: sc-97893-V and Ribosomal Protein L13A shRNA (m) Lentiviral Particles: sc-152895-V.

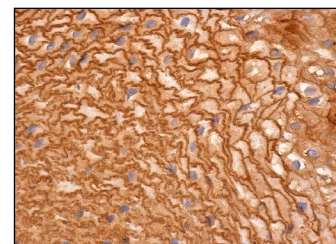
Molecular Weight of Ribosomal Protein L13A: 24 kDa.

Positive Controls: JAR cell lysate: sc-2276, U-937 cell lysate: sc-2239 or HeLa whole cell lysate: sc-2200.

DATA



Ribosomal Protein L13A (C-11): sc-160039. Western blot analysis of Ribosomal Protein L13A expression in JAR (A), HeLa (B), HCT 116 (C), RD (D), U-937 (E) and Jurkat (F) and whole cell lysates.



Ribosomal Protein L13A (C-11): sc-160039. Immunoperoxidase staining of formalin fixed, paraffin-embedded human esophagus tissue showing cytoplasmic and membrane staining of squamous epithelial cells.

RESEARCH USE

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

MONOS
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Try **Ribosomal Protein L13A (C-11): sc-390131**, our highly recommended monoclonal alternative to Ribosomal Protein L13A (C-11).