

Ribosomal Protein L23a (FL-156): sc-135388

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 L23a, also known as RPL23A or MDA20, is a 156 amino acid protein that exists as part of the 60S ribosomal subunit and is expressed at high levels in heart, pancreas and skeletal muscle. Localized to the cytoplasm, Ribosomal Protein L23a is thought to be involved in the mediation of growth inhibition, possibly functioning as a target molecule for interferons (IFNs). Like most ribosomal proteins, Ribosomal Protein L23a exists as multiple processed pseudogenes that are scattered throughout the genome.

CHROMOSOMAL LOCATION

Genetic locus: RPL23A (human) mapping to 17q11.2; Rpl23a (mouse) mapping to 11 B5.

SOURCE

Ribosomal Protein L23a (FL-156) is a rabbit polyclonal antibody raised against amino acids 1-156 representing full length Ribosomal Protein L23a 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.

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 L23a (FL-156) is recommended for detection of Ribosomal Protein L23a 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).

Ribosomal Protein L23a (FL-156) is also recommended for detection of Ribosomal Protein L23a in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Ribosomal Protein L23a siRNA (h): sc-94170, Ribosomal Protein L23a siRNA (m): sc-152904, Ribosomal Protein L23a shRNA Plasmid (h): sc-94170-SH, Ribosomal Protein L23a shRNA Plasmid (m): sc-152904-SH, Ribosomal Protein L23a shRNA (h) Lentiviral Particles: sc-94170-V and Ribosomal Protein L23a shRNA (m) Lentiviral Particles: sc-152904-V.

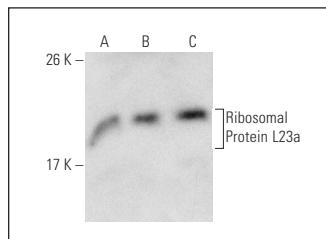
Molecular Weight of Ribosomal Protein L23a: 18 kDa.

Positive Controls: ACHN whole cell lysate: sc-364365, HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

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). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Ribosomal Protein L23a (FL-156): sc-135388. Western blot analysis of Ribosomal Protein L23a expression in HeLa (A), Jurkat (B) and ACHN (C) whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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



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Try **Ribosomal Protein L23a (3E11): sc-517097**, our highly recommended monoclonal alternative to Ribosomal Protein L23a (FL-156).