SANTA CRUZ BIOTECHNOLOGY, INC.

Ribosomal Protein L15 (N-17): sc-100124

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 L15, also known as RPL15, EC45 or RPLY10, is a 204 amino acid protein that localizes to the cytoplasm and functions as a component of the 60S subunit, playing a role in protein translation. Existing as multiple alternatively spliced isoforms, Ribosomal Protein L15 is overexpressed in esophageal and gastric tumors, suggesting a role in carcinogenesis. Like most ribosomal proteins, Ribosomal Protein L9 exists as multiple processed pseudogenes that are scattered throughout the genome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RPL15 (human) mapping to 3p24.2; Rpl15 (mouse) mapping to 14 A2.

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.

SOURCE

Ribosomal Protein L15 (N-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of Ribosomal Protein L15 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-100124 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Ribosomal Protein L15 (N-17) is recommended for detection of Ribosomal Protein L15 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); non cross-reactive with other RPL proteins.

Suitable for use as control antibody for Ribosomal Protein L15 siRNA (h): sc-78295, Ribosomal Protein L15 siRNA (m): sc-152897, Ribosomal Protein L15 shRNA Plasmid (h): sc-78295-SH, Ribosomal Protein L15 shRNA Plasmid (m): sc-152897-SH, Ribosomal Protein L15 shRNA (h) Lentiviral Particles: sc-78295-V and Ribosomal Protein L15 shRNA (m) Lentiviral Particles: sc-152897-V.

Molecular Weight of Ribosomal Protein L15: 24 kDa.

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) 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.

PROTOCOLS

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