

Ribosomal Protein L13 (P-15): sc-109011

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 L13, also known as RPL13 or BBC1 (breast basic conserved protein 1), is a 211 amino acid protein that is a component of the 60S subunit. Localized to the cytoplasm and expressed ubiquitously, Ribosomal Protein L13 belongs to the L13E family of ribosomal proteins and functions in protein synthesis. In addition, the gene encoding Ribosomal Protein L13 is expressed at high levels in benign breast lesions. Like most ribosomal proteins, Ribosomal Protein L13 exists as multiple processed pseudogenes that are scattered throughout the genome. Due to alternative splicing events and/or alternative polyadenylation, various isoforms exist for Ribosomal Protein L13.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RPL13 (human) mapping to 16q24.3; Rpl13 (mouse) mapping to 8 E1.

RESEARCH USE

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

SOURCE

Ribosomal Protein L13 (P-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Ribosomal Protein L13 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-109011 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Ribosomal Protein L13 (P-15) is recommended for detection of Ribosomal Protein L13 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).

Ribosomal Protein L13 (P-15) is also recommended for detection of Ribosomal Protein L13 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for Ribosomal Protein L13 siRNA (h): sc-92988, Ribosomal Protein L13 siRNA (m): sc-152894, Ribosomal Protein L13 shRNA Plasmid (h): sc-92988-SH, Ribosomal Protein L13 shRNA Plasmid (m): sc-152894-SH, Ribosomal Protein L13 shRNA (h) Lentiviral Particles: sc-92988-V and Ribosomal Protein L13 shRNA (m) Lentiviral Particles: sc-152894-V.

Molecular Weight of Ribosomal Protein L13: 24 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, K-562 whole cell lysate: sc-2203 or HeLa nuclear extract: sc-2120.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.