

MRP-S18B (C-13): sc-132361

BACKGROUND

Mitochondrial ribosomes consist of a large 39S subunit and a small 28S subunit, both of which are comprised of multiple mitochondrial ribosomal proteins (MRPs) that are encoded by nuclear genes and are essential for protein synthesis within mitochondria. MRP-S18A (mitochondrial ribosomal protein S18A), also known as MRPS18-3, is a 196 amino acid protein that localizes to the mitochondrion, where it exists as a component of the 28S ribosomal subunit and works in conjunction with other MRPs to mediate protein synthesis. MRP-S18A is a member of the ribosomal protein S18P family, which also includes MRP-S18B and MRP-S18C. The gene encoding MRP-S18A maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MRPS18B (human) mapping to 6p21.33; Mrps18b (mouse) mapping to 17 B1.

SOURCE

MRP-S18B (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of MRP-S18B of human origin.

RESEARCH USE

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

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-132361 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MRP-S18B (C-13) is recommended for detection of MRP-S18B 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 MRP-S18A or MRP-S18C.

Suitable for use as control antibody for MRP-S18B siRNA (h): sc-95526, MRP-S18B siRNA (m): sc-149620, MRP-S18B shRNA Plasmid (h): sc-95526-SH, MRP-S18B shRNA Plasmid (m): sc-149620-SH, MRP-S18B shRNA (h) Lentiviral Particles: sc-95526-V and MRP-S18B shRNA (m) Lentiviral Particles: sc-149620-V.

Molecular Weight of MRP-S18B: 29 kDa.

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.