# MRP-S18A (Y-13): sc-132360



The Power to Question

# **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: MRPS18A (human) mapping to 6p21.1; Mrps18a (mouse) mapping to 17 C.

# STORAGE

Store at 4° C, \*\*D0 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.

#### **SOURCE**

MRP-S18A (Y-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of MRP-S18A of human origin.

# **PRODUCT**

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-132360 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

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

Suitable for use as control antibody for MRP-S18A siRNA (h): sc-95289, MRP-S18A siRNA (m): sc-149619, MRP-S18A shRNA Plasmid (h): sc-95289-SH, MRP-S18A shRNA Plasmid (m): sc-149619-SH, MRP-S18A shRNA (h) Lentiviral Particles: sc-95289-V and MRP-S18A shRNA (m) Lentiviral Particles: sc-149619-V.

Molecular Weight of MRP-S18A: 22 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.

# **RESEARCH USE**

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

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