MRP-63 (C-20): sc-84515



The Power to Question

BACKGROUND

Mammalian mitochondrial ribosomes (mitoribosomes) are responsible for protein synthesis within the mitochondrion. The mitoribosomes are composed of a 4:1 ratio of protein to RNA, with the proteins forming two subunits, the 28S subunit and the 39S subunit. Across species, the proteins that make up the mitoribosome subunits vary greatly in sequence, preventing easy recognition by sequence homology. MRP-63 102 amino acid protein that has been identified on the intact 55S mitoribosome subunit. It is theorized that MRP-63 localizes to the subunit interface and dissociates from the 55S mitoribosome during subunit separation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MRP63 (human) mapping to 13q12.11.

SOURCE

MRP-63 (C-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of MRP-63 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-84515 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MRP-63 (C-20) is recommended for detection of MRP-63 of 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 MRP family members.

MRP-63 (C-20) is also recommended for detection of MRP-63 in additional species, including canine.

Suitable for use as control antibody for MRP-63 siRNA (h): sc-75827, MRP-63 shRNA Plasmid (h): sc-75827-SH and MRP-63 shRNA (h) Lentiviral Particles: sc-75827-V.

Molecular Weight of MRP-63: 12 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) 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.

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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