

MRP-L10 (Q-12): sc-107761

BACKGROUND

Mitochondria have their own translation machinery for production of thirteen proteins that are required for oxidative phosphorylation. MRP-L10 (39S ribosomal protein L10, mitochondrial), also known as MRPL8, is a 261 amino acid protein that is a component of the large ribosomal subunit of the mitochondria. MRP-L10 is one of the 70 protein components of mitochondrial ribosomes that are encoded by the nuclear genome. MRP-L10 is deacetylated in a NAD⁺-dependent manner by SIRT3, which is an event that contributes to the regulation of mitochondrial protein synthesis. The gene encoding MRP-L10 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MRPL10 (human) mapping to 17q21.32; Mrpl10 (mouse) mapping to 11 D.

RESEARCH USE

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

SOURCE

MRP-L10 (Q-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MRP-L10 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-107761 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MRP-L10 (Q-12) is recommended for detection of MRP-L10 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).

Suitable for use as control antibody for MRP-L10 siRNA (h): sc-93589, MRP-L10 siRNA (m): sc-149578, MRP-L10 shRNA Plasmid (h): sc-93589-SH, MRP-L10 shRNA Plasmid (m): sc-149578-SH, MRP-L10 shRNA (h) Lentiviral Particles: sc-93589-V and MRP-L10 shRNA (m) Lentiviral Particles: sc-149578-V.

Molecular Weight of MRP-L10: 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.

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.