

MRP-L21 (V-15): sc-131191

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-L21 (mitochondrial ribosomal protein L21), also known as L21mt, is a 205 amino acid protein that belongs to the ribosomal protein L21P family and is encoded by a gene that maps to human chromosome 11q13.2. Chromosome 11 houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

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CHROMOSOMAL LOCATION

Genetic locus: MRPL21 (human) mapping to 11q13.3; Mrpl21 (mouse) mapping to 19 A.

SOURCE

MRP-L21 (V-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MRP-L21 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-131191 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MRP-L21 (V-15) is recommended for detection of MRP-L21 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 other MRP family members.

MRP-L21 (V-15) is also recommended for detection of MRP-L21 in additional species, including canine, bovine and avian.

Suitable for use as control antibody for MRP-L21 siRNA (h): sc-96997, MRP-L21 siRNA (m): sc-149589, MRP-L21 shRNA Plasmid (h): sc-96997-SH, MRP-L21 shRNA Plasmid (m): sc-149589-SH, MRP-L21 shRNA (h) Lentiviral Particles: sc-96997-V and MRP-L21 shRNA (m) Lentiviral Particles: sc-149589-V.

Molecular Weight of MRP-L21: 23 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.

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.