# MRP-L27 (C-13): sc-107774



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-L27 (mitochondrial ribosomal protein L27), also known as HSPC250, is a 148 amino acid protein that localizes to the mitochondrion, where it exists as a component of the 39S ribosomal subunit and works in conjunction with other MRPs to mediate protein synthesis. The gene encoding MRP-L27 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

## **REFERENCES**

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# **CHROMOSOMAL LOCATION**

Genetic locus: MRPL27 (human) mapping to 17q21.33; Mrpl27 (mouse) mapping to 11 D.

# SOURCE

MRP-L27 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of MRP-L27 of human origin.

## **RESEARCH USE**

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

#### **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-107774 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

MRP-L27 (C-13) is recommended for detection of MRP-L27 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-L27 siRNA (h): sc-94038, MRP-L27 siRNA (m): sc-149592, MRP-L27 shRNA Plasmid (h): sc-94038-SH, MRP-L27 shRNA Plasmid (m): sc-149592-SH, MRP-L27 shRNA (h) Lentiviral Particles: sc-94038-V and MRP-L27 shRNA (m) Lentiviral Particles: sc-149592-V.

Molecular Weight of MRP-L27: 16 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.

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