

# MRP-L11 (L-12): sc-109558

## BACKGROUND

Mitochondria have their own translation machinery for production of thirteen proteins that are required for oxidative phosphorylation. MRP-L11 (39S ribosomal protein L11, mitochondrial), also known as CGI-113, is a 192 amino acid protein that is a component of the large ribosomal subunit of the mitochondria. MRP-L11 is one of the 70 protein components of mitochondrial ribosomes that are encoded by the nuclear genome. The gene encoding MRP-L11 maps to human chromosome 11, which 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.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: Mrpl11 (mouse) mapping to 19 A.

## SOURCE

MRP-L11 (L-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of MRP-L11 of mouse origin.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## 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-109558 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

MRP-L11 (L-12) is recommended for detection of MRP-L11 of mouse and rat 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-L11 (L-12) is also recommended for detection of MRP-L11 in additional species, including porcine.

Suitable for use as control antibody for MRP-L11 siRNA (m): sc-149579, MRP-L11 shRNA Plasmid (m): sc-149579-SH and MRP-L11 shRNA (m) Lentiviral Particles: sc-149579-V.

Molecular Weight of MRP-L11: 21 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.