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MRPL18 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7320c

Specification

MRPL18 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9H0U6

MRPL18 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 29074

Other Names
39S ribosomal protein L18, mitochondrial, L18mt, MRP-L18, MRPL18

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7320c was selected from the Center region of human MRPL18. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MRPL18 Antibody (Center) Blocking Peptide - Protein Information

Name MRPL18

Function
Together with thiosulfate sulfurtransferase (TST), acts as a mitochondrial import factor for the cytosolic 5S rRNA. The precursor form shows RNA chaperone activity; is able to fold the 5S rRNA into an import-competent conformation that is recognized by rhodanese (TST). Both the cytoplasmic and mitochondrial forms are able to bind to the helix IV-loop D in the gamma domain of the 5S rRNA.

Cellular Location
Mitochondrion

MRPL18 Antibody (Center) Blocking Peptide - Protocols

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Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

MRPL18 Antibody (Center) Blocking Peptide - Images

MRPL18 Antibody (Center) Blocking Peptide - Background

MRPL18 is encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology.

MRPL18 Antibody (Center) Blocking Peptide - References

Zhang,Z. and Gerstein,M. Genomics 81 (5), 468-480 (2003)Koc,E.C., Burkhart,W. J. Biol. Chem. 276 (47), 43958-43969 (2001)Kenmochi,N., Suzuki,T. Genomics 77 (1-2), 65-70 (2001)