

**RM51 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10931b****Specification**

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**RM51 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q4U2R6](#)**RM51 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 51258**Other Names**

39S ribosomal protein L51, mitochondrial, L51mt, MRP-L51, bMRP-64, bMRP64, MRPL51, MRP64

**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.

**RM51 Antibody (C-term) Blocking peptide - Protein Information****Name** MRPL51**Synonyms** MRP64**Cellular Location**

Mitochondrion

**RM51 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**RM51 Antibody (C-term) Blocking peptide - Images****RM51 Antibody (C-term) Blocking peptide - Background**

Mammalian mitochondrial ribosomal proteins are 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 mitochondria and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitochondria differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein. Pseudogenes corresponding to this gene are found on chromosomes 4p and 21q.

#### **RM51 Antibody (C-term) Blocking peptide - References**

Zhang, Z., et al. Genomics 81(5):468-480(2003) Koc, E.C., et al. J. Biol. Chem. 276(47):43958-43969(2001) Kenmochi, N., et al. Genomics 77 (1-2), 65-70 (2001) :Suzuki, T., et al. J. Biol. Chem. 276(35):33181-33195(2001)