

**RM44 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP5726a****Specification**

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**RM44 Antibody (N-term) Blocking peptide - Product Information**

Primary Accession [O9H9J2](#)  
Other Accession [NP\\_075066.1](#)

**RM44 Antibody (N-term) Blocking peptide - Additional Information**

**Gene ID** 65080

**Other Names**

39S ribosomal protein L44, mitochondrial, L44mt, MRP-L44, 3126-, MRPL44

**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.

**RM44 Antibody (N-term) Blocking peptide - Protein Information**

**Name** MRPL44

**Function**

Component of the 39S subunit of mitochondrial ribosome. May have a function in the assembly/stability of nascent mitochondrial polypeptides exiting the ribosome.

**Cellular Location**

Mitochondrion

**RM44 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**RM44 Antibody (N-term) Blocking peptide - Images**

**RM44 Antibody (N-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 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. This gene encodes a 39S subunit protein. [provided by RefSeq].

#### **RM44 Antibody (N-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)