

**RM50 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12930b****Specification**

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**RM50 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q8N5N7](#)**RM50 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 54534**Other Names**

39S ribosomal protein L50, mitochondrial, L50mt, MRP-L50, MRPL50

**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.

**RM50 Antibody (C-term) Blocking peptide - Protein Information****Name** MRPL50**Cellular Location**

Mitochondrion

**RM50 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**RM50 Antibody (C-term) Blocking peptide - Images****RM50 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 mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among

different species, the proteins comprising the mitochondrion differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a putative 39S subunit protein and belongs to the L47P ribosomal protein family. Pseudogenes corresponding to this gene are found on chromosomes 2p, 2q, 5p, and 10q.

#### **RM50 Antibody (C-term) Blocking peptide - References**

Humphray, S.J., et al. Nature 429(6990):369-374(2004) Zhang, Z., et al. Genomics 81(5):468-480(2003) Koc, E.C., et al. J. Biol. Chem. 276(47):43958-43969(2001)