

**MRPS2 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17471a****Specification**

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**MRPS2 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9Y399](#)**MRPS2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 51116**Other Names**

28S ribosomal protein S2, mitochondrial, MRP-S2, S2mt, MRPS2

**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.

**MRPS2 Antibody (N-term) Blocking Peptide - Protein Information****Name** MRPS2**Function**

Required for mitoribosome formation and stability, and mitochondrial translation.

**Cellular Location**

Mitochondrion.

**MRPS2 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**MRPS2 Antibody (N-term) Blocking Peptide - Images****MRPS2 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 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 28S subunit protein that belongs to the ribosomal protein S2 family.

#### **MRPS2 Antibody (N-term) Blocking Peptide - References**

Zhang, Z., et al. Genomics 81(5):468-480(2003) Kenmochi, N., et al. Genomics 77 (1-2), 65-70 (2001) :Suzuki, T., et al. J. Biol. Chem. 276(35):33181-33195(2001) Cavdar Koc, E., et al. J. Biol. Chem. 276(22):19363-19374(2001)