

**MARS2 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7841a****Specification**

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**MARS2 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q96GW9](#)**MARS2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 92935**Other Names**

Methionine--tRNA ligase, mitochondrial, Methionyl-tRNA synthetase 2, Mitochondrial methionyl-tRNA synthetase, MtMetRS, MARS2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7841a](/products/AP7841a) was selected from the N-term region of human MARS2. 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.

**MARS2 Antibody (N-term) Blocking Peptide - Protein Information****Name** MARS2**Cellular Location**

Mitochondrion matrix.

**MARS2 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**MARS2 Antibody (N-term) Blocking Peptide - Images**

**MARS2 Antibody (N-term) Blocking Peptide - Background**

Methionine-tRNA ligase (MARS2) (EC 6.1.1.10) catalyzes the chemical reaction: ATP + L-methionine + tRNA<sup>Met</sup> → AMP + diphosphate + L-methionyl-tRNA<sup>Met</sup>. The 3 substrates of this enzyme are ATP, L-methionine, and tRNA(Met), whereas its 3 products are AMP, diphosphate, and L-methionyl-tRNA(Met). This enzyme participates in 3 metabolic pathways: methionine metabolism, selenoamino acid metabolism, and aminoacyl-tRNA biosynthesis.

**MARS2 Antibody (N-term) Blocking Peptide - References**

Spencer, A.C., Biochemistry 43 (30), 9743-9754 (2004)