

MARS Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7844b**Specification****MARS Antibody (C-term) Blocking Peptide -
Product Information**Primary Accession [P56192](#)**MARS Antibody (C-term) Blocking Peptide -
Additional Information**

Gene ID 4141

Other NamesMethionine--tRNA ligase, cytoplasmic,
Methionyl-tRNA synthetase, MetRS, MARS**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7844b](/products/AP7844b) was selected from the C-term region of human MARS. 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.

**MARS Antibody (C-term) Blocking Peptide -
Protein Information**Name MARS1 ([HGNC:6898](#))

Synonyms MARS

**MARS Antibody (C-term) Blocking Peptide
- Background**

methionyl-tRNA synthetase belongs to the class I family of tRNA synthetases. It catalyzes the chemical reaction: ATP + L-methionine + tRNA(Met) = AMP + diphosphate + L-methionyl-tRNA(Met).

**MARS Antibody (C-term) Blocking Peptide
- References**

Kaminska,M., Biochemistry 40 (47), 14309-14316 (2001)Kang,J., J. Biol. Chem. 275 (41), 31682-31688 (2000)Ko,Y.G., J. Cell Biol. 149 (3), 567-574 (2000)Quevillon,S., J. Mol. Biol. 285 (1), 183-195 (1999)

Function

Catalyzes the specific attachment of an amino acid to its cognate tRNA in a 2 step reaction: the amino acid (AA) is first activated by ATP to form AA-AMP and then transferred to the acceptor end of the tRNA (PubMed:11714285). Plays a role in the synthesis of ribosomal RNA in the nucleolus (PubMed:10791971).

Cellular Location

Cytoplasm, cytosol. Nucleus, nucleolus.

Note=Localizes to the nucleolus in proliferative cells but disappears in quiescent cells

**MARS Antibody (C-term) Blocking Peptide
- Protocols**

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

- [Blocking Peptides](#)