

### MARS Antibody (C-term) Blocking Peptide

Synthetic peptide Catalog # BP7844b

#### **Specification**

MARS Antibody (C-term) Blocking Peptide - Product Information

Primary Accession <u>P56192</u>

MARS Antibody (C-term) Blocking Peptide - Additional Information

**Gene ID 4141** 

#### **Other Names**

Methionine--tRNA ligase, cytoplasmic, Methionyl-tRNA synthetase, MetRS, MARS

#### **Target/Specificity**

The synthetic peptide sequence used to generate the antibody <a href=/products/AP7844b>AP7844b</a> 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)

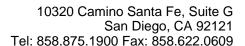
Synonyms MARS

# 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:<a href="http://www.uniprot.org/c itations/11714285" target="\_blank">11714285" target="\_blank">11714285</a>). Plays a role in the synthesis of ribosomal RNA in the nucleolus (PubMed:<a href="http://www.uniprot.org/citations/10791971" target="\_blank">10791971</a>).

#### **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