

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 Names

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody 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

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

MARS Antibody (C-term) Blocking Peptide - Images

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)