

MARS Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7844b

Specification

MARS Antibody (C-term) - Product Information

IHC-P, WB,E Application **Primary Accession** P56192 Reactivity Human Host **Rabbit** Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 101116 Antigen Region 872-899

MARS Antibody (C-term) - Additional Information

Gene ID 4141

Other Names

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

Target/Specificity

This MARS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 872-899 amino acids from the C-terminal region of human MARS.

Dilution

IHC-P~~1:10~50 WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

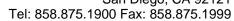
MARS Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MARS Antibody (C-term) - 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

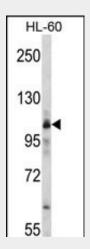
Cytoplasm, cytosol. Nucleus, nucleolus. Note=Localizes to the nucleolus in proliferative cells but disappears in quiescent cells

MARS Antibody (C-term) - Protocols

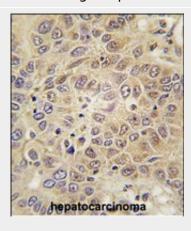
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MARS Antibody (C-term) - Images



Western blot analysis of MARS Antibody (C-term) (Cat. #AP7844b) in HL-60 cell line lysates (35ug/lane). cMARS (arrow) was detected using the purified Pab.





Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with MARS antibody (C-term) (Cat.#AP7844b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

MARS Antibody (C-term) - 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) - 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)