10320 Camino Santa Fe, Suite G
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FARS2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP4994b

Specification

FARS2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession O95363

FARS2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 10667

Other Names
Phenylalanine--tRNA ligase, mitochondrial, Phenylalanyl-tRNA synthetase, PheRS, FARS2, FARS1

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.

FARS2 Antibody (C-term) Blocking Peptide - Protein Information

Name FARS2

Synonyms FARS1

Function
Is responsible for the charging of tRNA(Phe) with phenylalanine in mitochondrial translation. To a lesser extent, also catalyzes direct attachment of m-Tyr (an oxidized version of Phe) to tRNA(Phe), thereby opening the way for delivery of the misacylated tRNA to the ribosome and incorporation of ROS-damaged amino acid into proteins.

Cellular Location
Mitochondrion matrix {ECO:0000250|UniProtKB:Q6AYQ3}. Mitochondrion {ECO:0000250|UniProtKB:Q6AYQ3}

FARS2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

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FARS2 Antibody (C-term) Blocking Peptide - Images

FARS2 Antibody (C-term) Blocking Peptide - Background

FARS2 encodes a telomere specific protein which is a component of the telomere nucleoprotein complex. This protein is present at telomeres throughout the cell cycle and functions as an inhibitor of telomerase, acting in cis to limit the elongation of individual chromosome ends. The protein structure contains a C-terminal Myb motif, a dimerization domain near its N-terminus and an acidic N-terminus.

FARS2 Antibody (C-term) Blocking Peptide - References

Ohishi, T., et al. Cancer Res. 70(5):2041-2052(2010)Zeng, Z., et al. Dev. Cell 18(2):214-225(2010)Tahmaseb, K., et al. Arch. Biochem. Biophys. 493(2):207-212(2010)