

**FARS2 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP4994b****Specification**

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**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](#)

**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)