

**PARS2 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11090b****Specification**

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**PARS2 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q7L3T8](#)**PARS2 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 25973**Other Names**

Probable proline--tRNA ligase, mitochondrial, Prolyl-tRNA synthetase, ProRS, PARS2

**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.

**PARS2 Antibody (C-term) Blocking peptide - Protein Information****Name** PARS2 ([HGNC:30563](#))**Function**

Mitochondrial aminoacyl-tRNA synthetase that catalyzes the specific attachment of the proline amino acid (aa) to the homologous transfer RNA (tRNA), further participating in protein synthesis. The reaction occurs in a two steps: proline is first activated by ATP to form Pro-AMP and then transferred to the acceptor end of tRNA(Pro).

**Cellular Location**

Mitochondrion matrix

**PARS2 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**PARS2 Antibody (C-term) Blocking peptide - Images****PARS2 Antibody (C-term) Blocking peptide - Background**

Forms part of a macromolecular complex that catalyzes the attachment of specific amino acids to cognate tRNAs during protein synthesis. Modulates the secretion of AIMP1 and may be involved in generation of the inflammatory cytokine EMAP2 from AIMP1.

**PARS2 Antibody (C-term) Blocking peptide - References**

Lamesch, P., et al. Genomics 89(3):307-315(2007) Bonnefond, L., et al. Biochemistry 44(12):4805-4816(2005)