

**TARS2 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7985a****Specification**

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**TARS2 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9BW92](#)**TARS2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 80222**Other Names**

Threonine--tRNA ligase, mitochondrial, Threonyl-tRNA synthetase, ThrRS, Threonyl-tRNA synthetase-like 1, TARS2, TARSL1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7985a](/products/AP7985a) was selected from the N-term region of human TARS2. 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.

**TARS2 Antibody (N-term) Blocking Peptide - Protein Information****Name** TARS2**Synonyms** TARSL1**Function**

Catalyzes the attachment of threonine to tRNA(Thr) in a two- step reaction: threonine is first activated by ATP to form Thr-AMP and then transferred to the acceptor end of tRNA(Thr). Also edits incorrectly charged tRNA(Thr) via its editing domain.

**Cellular Location**

Mitochondrion matrix.

## **TARS2 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **TARS2 Antibody (N-term) Blocking Peptide - Images**

## **TARS2 Antibody (N-term) Blocking Peptide - Background**

Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Threonyl-tRNA synthetase belongs to the class-II aminoacyl-tRNA synthetase family

## **TARS2 Antibody (N-term) Blocking Peptide - References**

Bonnefond,L., Biochemistry 44 (12), 4805-4816 (2005)