

**TARS Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7984c****Specification**

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**TARS Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P26639](#)**TARS Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 6897**Other Names**

Threonine--tRNA ligase, cytoplasmic, Threonyl-tRNA synthetase, ThrRS, TARS

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7984c](/products/AP7984c) was selected from the Center region of human TARS. 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.

**TARS Antibody (Center) Blocking Peptide - Protein Information****Name** TARS1 ([HGNC:11572](#))**Synonyms** TARS**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) (PubMed: [25824639](http://www.uniprot.org/citations/25824639), PubMed: [31374204](http://www.uniprot.org/citations/31374204)). Also edits incorrectly charged tRNA(Thr) via its editing domain, at the post-transfer stage (By similarity).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:Q9D0R2}.

## **TARS Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **TARS Antibody (Center) Blocking Peptide - Images**

## **TARS Antibody (Center) 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.

## **TARS Antibody (Center) Blocking Peptide - References**

Freist,W., Biol. Chem. Hoppe-Seyler 376 (4), 213-224 (1995)Cruzen,M.E., J. Biol. Chem. 266 (15), 9919-9923 (1991)