

NARS2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7585a**Specification**

NARS2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q96I59](#)**NARS2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 79731**Other Names**

Probable asparagine--tRNA ligase, mitochondrial, Asparaginyl-tRNA synthetase, AsnRS, NARS2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7585a](/products/AP7585a) was selected from the N-term region of human NARS2. 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.

NARS2 Antibody (N-term) Blocking Peptide - Protein Information**Name** NARS2 ([HGNC:26274](#))**Function**

Mitochondrial aminoacyl-tRNA synthetase that catalyzes the specific attachment of the asparagine amino acid (aa) to the homologous transfer RNA (tRNA), further participating in protein synthesis (PubMed: [25385316](http://www.uniprot.org/citations/25385316)). The reaction occurs in a two steps: asparagine is first activated by ATP to form Asn-AMP and then transferred to the acceptor end of tRNA(Asn) (Probable).

Cellular Location

Mitochondrion matrix. Mitochondrion

NARS2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NARS2 Antibody (N-term) Blocking Peptide - Images

NARS2 Antibody (N-term) Blocking Peptide - Background

Asparagine-tRNA ligase (EC 6.1.1.22) catalyzes the chemical reaction: ATP + L-asparagine + tRNAAsn AMP + diphosphate + L-asparaginyI-tRNAAsn. This enzyme participates in alanine and aspartate metabolism and aminoacyl-tRNA biosynthesis.

NARS2 Antibody (N-term) Blocking Peptide - References

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