

NARS Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7568b**Specification****NARS Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [O43776](#)**NARS Antibody (C-term) Blocking Peptide - Additional Information****Gene ID 4677****Other Names**

Asparagine--tRNA ligase, cytoplasmic, Asparaginyl-tRNA synthetase, AsnRS, NARS

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7568b](#) was selected from the C-term region of human NARS. 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.

NARS Antibody (C-term) Blocking Peptide - Protein Information**Name** NARS1 ([HGNC:7643](#))**Function**

Catalyzes the attachment of asparagine to tRNA(Asn) in a two- step reaction: asparagine is first activated by ATP to form Asn-AMP and then transferred to the acceptor end of tRNA(Asn) (PubMed:[32738225](http://www.uniprot.org/citations/32738225), PubMed:[32788587](http://www.uniprot.org/citations/32788587), PubMed:[9421509](http://www.uniprot.org/citations/9421509)). In addition to its essential role in protein synthesis, acts as a signaling molecule that induced migration of CCR3-expressing cells (PubMed:[12235211](http://www.uniprot.org/citations/12235211), PubMed:[30171954](http://www.uniprot.org/citations/30171954)). Has an essential role in the development of the cerebral cortex, being required for proper proliferation of radial glial cells (PubMed:[32788587](http://www.uniprot.org/citations/32788587)).

Cellular Location

Cytoplasm.

NARS Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NARS Antibody (C-term) Blocking Peptide - Images**NARS Antibody (C-term) Blocking Peptide - Background**

Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. Asparaginyl-tRNA synthetase (NARS) is localized to the cytoplasm and belongs to the class II family of tRNA synthetases. The N-terminal domain represents the signature sequence for the eukaryotic asparaginyl-tRNA synthetases.

NARS Antibody (C-term) Blocking Peptide - References

Lim,J., Cell 125 (4), 801-814 (2006) Lehner,B., Genome Res. 14 (7), 1315-1323 (2004) Beaulande,M., Nucleic Acids Res. 26 (2), 521-524 (1998)