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NARS2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7585b

Specification

NARS2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q96I59

NARS2 Antibody (C-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 AP7585b was selected from the C-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 (C-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). 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 (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

NARS2 Antibody (C-term) Blocking Peptide - Images

NARS2 Antibody (C-term) Blocking Peptide - Background

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

NARS2 Antibody (C-term) Blocking Peptide - References

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