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DARS Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7572b

Specification

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

Primary Accession P14868

DARS Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 1615

Other Names
Aspartate--tRNA ligase, cytoplasmic, Aspartyl-tRNA synthetase, AspRS, Cell proliferation-inducing gene 40 protein, DARS

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7572b was selected from the C-term region of humanRS. 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.

DARS Antibody (C-term) Blocking Peptide - Protein Information

Name DARS1 (HGNC:2678)

Synonyms DARS

Function
Catalyzes the specific attachment of an amino acid to its cognate tRNA in a 2 step reaction: the amino acid (AA) is first activated by ATP to form AA-AMP and then transferred to the acceptor end of the tRNA.

Cellular Location
Cytoplasm, cytosol.

Tissue Location
Expression in the developing and adult brain shows similar patterns. Highly expressed in the

ventricular and subventricular zones, including hippocampal subfields, the midlateral temporal cortex and the frontal polar cortex. The cerebellum, cerebral cortex, hippocampus, and lateral ventricle show preferential neuronal expression. Expression in the peripheral neurons is evident in the colon.

DARS Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

DARS Antibody (C-term) Blocking Peptide - Images

DARS Antibody (C-term) Blocking Peptide - Background

Aspartyl-tRNA synthetase (DARS) is part of a multienzyme complex of aminoacyl-tRNA synthetases. Aspartyl-tRNA synthetase charges its cognate tRNA with aspartate during protein biosynthesis.

DARS Antibody (C-term) Blocking Peptide - References

Bonnefond,L., Biochemistry 44 (12), 4805-4816 (2005)Cheong,H.K., Int. J. Biochem. Cell Biol. 35 (11), 1548-1557 (2003)Sang Lee,J., Biochem. Biophys. Res. Commun. 291 (1), 158-164 (2002)