

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

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**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](/product/products/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)