

**CARS Antibody (C-term E689) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7777d****Specification**

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**CARS Antibody (C-term E689) Blocking Peptide - Product Information**

Primary Accession [P49589](#)  
Other Accession [NP\\_001742](#)

**CARS Antibody (C-term E689) Blocking Peptide - Additional Information**

**Gene ID** 833

**Other Names**

Cysteine--tRNA ligase, cytoplasmic, Cysteinyl-tRNA synthetase, CysRS, CARS

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7777d](/products/AP7777d) was selected from the C-term region of human CARS. 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.

**CARS Antibody (C-term E689) Blocking Peptide - Protein Information**

**Name** CARS1 ([HGNC:1493](#))

**Synonyms** CARS

**Function**

Catalyzes the ATP-dependent ligation of cysteine to tRNA(Cys).

**Cellular Location**

Cytoplasm.

**CARS Antibody (C-term E689) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **CARS Antibody (C-term E689) Blocking Peptide - Images**

#### **CARS Antibody (C-term E689) Blocking Peptide - Background**

CARS is a class 1 aminoacyl-tRNA synthetase, cysteinyl-tRNA synthetase. Each of the twenty aminoacyl-tRNA synthetases catalyzes the aminoacylation of a specific tRNA or tRNA isoaccepting family with the cognate amino acid.

#### **CARS Antibody (C-term E689) Blocking Peptide - References**

Liu,C., J. Mol. Biol. 367 (4), 1063-1078 (2007)Cools,J., Genes Chromosomes Cancer 34 (4), 354-362 (2002)Davidson,E., Biol. Chem. 382 (3), 399-406 (2001)Kim,J.E., Nucleic Acids Res. 28 (15), 2866-2872 (2000)