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CARS2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP7846b

Specification

CARS2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9HA77

CARS2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 79587

Other Names
Probable cysteine--tRNA ligase, mitochondrial, Cysteinyl-tRNA synthetase, CysRS, CARS2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7846b was selected from the C-term region of human CARS2. 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.

CARS2 Antibody (C-term) Blocking Peptide - Protein Information

Name CARS2 (HGNC:25695)

Function
Mitochondrial cysteine-specific aminoacyl-tRNA synthetase that catalyzes the ATP-dependent ligation of cysteine to tRNA(Cys).

Cellular Location
Mitochondrion.

CARS2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CARS2 Antibody (C-term) Blocking Peptide - Images

CARS2 Antibody (C-term) Blocking Peptide - Background

CARS is a class 2 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.It catalyzes the chemical reaction:ATP + L-cysteine + tRNA(Cys) = AMP + diphosphate + L-cysteinyl-tRNA(Cys).

CARS2 Antibody (C-term) Blocking Peptide - References

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