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EARS2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP7573b

Specification

EARS2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q5JPH6

EARS2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 124454

Other Names
Probable glutamate--tRNA ligase, mitochondrial, Glutamyl-tRNA synthetase, GluRS, EARS2, KIAA1970

Target/Specificity
The synthetic peptide sequence used to generate the antibody <a >AP7573b was selected from the C-term region of human EARS2. 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.

EARS2 Antibody (C-term) Blocking Peptide - Protein Information

Name EARS2

Synonyms KIAA1970

EARS2 Antibody (C-term) Blocking Peptide - Background

Glutamyl-tRNA synthetase (GluRS or EARS2) a class I aminoacyl-tRNA synthetase (aaRS), is primarily responsible for the glutamylation of tRNAGlu. It is part of the ??inimal set??of seventeen aaRSs found in every living organism and its presence is essential for the viability of cells.

EARS2 Antibody (C-term) Blocking Peptide - References

Bonnefond,L.,Biochemistry 44 (12), 4805-4816 (2005)Daniel Y. Dubois, Jacques Lapointe and Shun-ichi Sekine, in Aminoacyl-tRNA Synthetases, Michael Ibba, ed (2005).

Function
Catalyzes the attachment of glutamate to tRNA(Glu) in a two- step reaction: glutamate is first activated by ATP to form Glu-AMP and then transferred to the acceptor end of tRNA(Glu).

Cellular Location
Mitochondrion matrix.

EARS2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides