

EARS2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7573c**Specification****EARS2 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q5JPH6](#)**EARS2 Antibody (Center) 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 [AP7573c](/products/AP7573c) was selected from the Center 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 (Center) Blocking Peptide - Protein Information**Name** EARS2**EARS2 Antibody (Center) Blocking Peptide - Background**

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

EARS2 Antibody (Center) Blocking Peptide - References

Bonnefond, L., Biochemistry 44 (12), 4805-4816 (2005)

Synonyms KIAA1970**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 (Center) Blocking Peptide
- Protocols**

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

- [Blocking Peptides](#)