

# **EARS2 Antibody (Center) Blocking Peptide**

Synthetic peptide Catalog # BP7573c

# **Specification**

EARS2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession <u>O5IPH6</u>

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 <a href=/products/AP7573c>AP7573c</a> 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

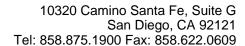
Name EARS2

# 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 tRNAGlu. It is part of the \[ \subseteq \text{inimal set} \subseteq ?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