

**IARS2 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7840a****Specification**

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**IARS2 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9NSE4](#)**IARS2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 55699**Other Names**

Isoleucine--tRNA ligase, mitochondrial, Isoleucyl-tRNA synthetase, IleRS, IARS2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7840a](/products/AP7840a) was selected from the N-term region of human IARS2. 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.

**IARS2 Antibody (N-term) Blocking Peptide - Protein Information****Name** IARS2 ([HGNC:29685](#))**Function**

Aminoacyl-tRNA synthetase that catalyzes the specific attachment of isoleucine to its cognate tRNA (tRNA(Ile)).

**Cellular Location**

Mitochondrion matrix.

**IARS2 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **IARS2 Antibody (N-term) Blocking Peptide - Images**

### **IARS2 Antibody (N-term) Blocking Peptide - Background**

IARS2 belongs to the class-I aminoacyl-tRNA synthetase family. Members of class I have two highly conserved sequence motifs. They aminoacylate at the 2'-OH of an adenosine nucleotide, and are usually monomeric or dimeric (one or two subunits, respectively). Both classes of aminoacyl-tRNA synthetases are multidomain proteins. The catalytic domains of all the aaRSs of a given class are found to be homologous to one another, while class I and class II aaRSs are unrelated to one another. The class I aaRSs have the ubiquitous Rossmann fold and have the antiparallel beta-strands architecture while the class II aaRSs have a unique fold made up of antiparallel beta-strands.