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IARS2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7840c

Specification

IARS2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9NSE4

IARS2 Antibody (Center) 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 AP7840c was selected from the Center 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 (Center) 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 (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

IARS2 Antibody (Center) Blocking Peptide - Images

IARS2 Antibody (Center) 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.