

LARS Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP11207a**Specification**

LARS Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q9P2J5](#)**LARS Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 51520**Other Names**

Leucine--tRNA ligase, cytoplasmic, Leucyl-tRNA synthetase, LeuRS, LARS, KIAA1352

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.

LARS Antibody (N-term) Blocking peptide - Protein Information**Name** LARS1 ([HGNC:6512](#))**Synonyms** KIAA1352, LARS**Function**

Aminoacyl-tRNA synthetase that catalyzes the specific attachment of leucine to its cognate tRNA (tRNA(Leu)) (PubMed:25051973, PubMed:32232361). It performs tRNA aminoacylation in a two-step reaction: Leu is initially activated by ATP to form a leucyl-adenylate (Leu-AMP) intermediate; then the leucyl moiety is transferred to the acceptor 3' end of the tRNA to yield leucyl-tRNA (PubMed:25051973). To improve the fidelity of catalytic reactions, it is also able to hydrolyze misactivated aminoacyl-adenylate intermediates (pre-transfer editing) and mischarged aminoacyl-tRNAs (post-transfer editing) (PubMed:25051973).

Cellular Location

Cytoplasm.

LARS Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

LARS Antibody (N-term) Blocking peptide - Images

LARS Antibody (N-term) Blocking peptide - Background

This gene encodes a cytosolic leucine-tRNA synthetase, a member of the class I aminoacyl-tRNA synthetase family. The encoded enzyme catalyzes the ATP-dependent ligation of L-leucine to tRNA(Leu). It is found in the cytoplasm as part of a multisynthetase complex and interacts with the arginine tRNA synthetase through its C-terminal domain. Alternatively spliced transcript variants of this gene have been found; however, their full-length nature is not known.

LARS Antibody (N-term) Blocking peptide - References

Pang, Y.L., et al. Biochemistry 48(38):8958-8964(2009) Seiradake, E., et al. J. Mol. Biol. 390(2):196-207(2009) Shin, S.H., et al. Exp. Mol. Med. 40(2):229-236(2008) Maeso, E., et al. Neuromuscul. Disord. 17(5):415-418(2007) Lue, S.W., et al. Biochemistry 46(15):4466-4472(2007)