

## Product datasheet for **AP52444PU-N**

### Leucyl tRNA synthetase (LARS) (N-term) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1000. <b>Western Blot:</b> 1/100-1/500. <b>Flow Cytometry:</b> 1/10-1/50.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 183-213 amino acids from the N-terminal region of Human LARS.
Specificity:	This antibody recognizes Human and Mouse LARS (N-term).
Formulation:	PBS containing 0.09% (W/V) Sodium Azide as preservative State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	leucyl-tRNA synthetase
Database Link:	<a href="#">Entrez Gene 51520 Human Q9P2J5</a>



[View online »](#)

**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.

**Synonyms:**

LARS, KIAA1352, Leucyl-tRNA synthetase, cytoplasmic, EC=6.1.1.4, Leucine-tRNA ligase, LeuRS

**Note:**

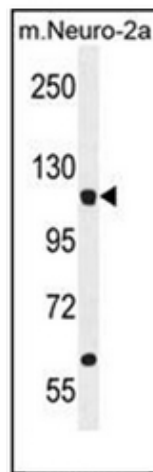
**Molecular Weight:** 134466 Da

**Protein Families:**

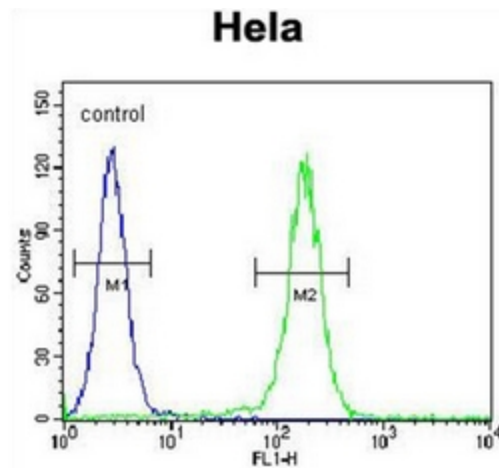
Druggable Genome

**Protein Pathways:**

Aminoacyl-tRNA biosynthesis, Valine, leucine and isoleucine biosynthesis

**Product images:**


Western blot analysis of LARS Antibody (N-term) in mouse Neuro-2a cell line lysates (35ug/lane). This demonstrates the LARS antibody detected the LARS protein (arrow).



Flow cytometric analysis of HeLa cells using LARS Antibody (N-term) (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.