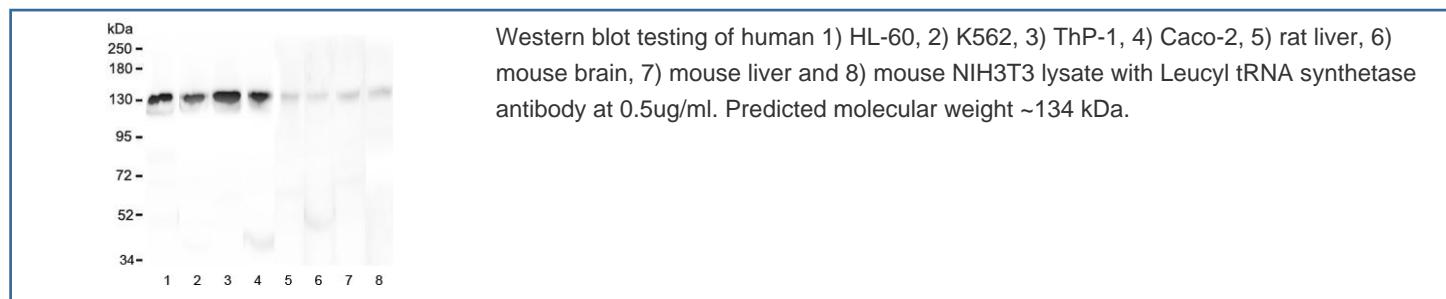


## Leucyl tRNA synthetase Antibody / LARS (RQ4955)

Catalog No.	Formulation	Size
RQ4955	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	Q9P2J5
<b>Applications</b>	Western Blot : 0.5-1ug/ml Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This Leucyl tRNA synthetase antibody is available for research use only.



### Description

Leucyl-tRNA synthetase, cytoplasmic is an enzyme that in humans is encoded by the LARS gene. This gene is mapped to 5q32. It 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. A mutation in this gene was found in affected individuals with infantile liver failure syndrome 1. Alternatively spliced transcript variants of this gene have been observed.

## Application Notes

Optimal dilution of the Leucyl tRNA synthetase antibody should be determined by the researcher.

## Immunogen

Amino acids Q628-Q855 from the human protein were used as the immunogen for the Leucyl tRNA synthetase antibody.

## Storage

After reconstitution, the Leucyl tRNA synthetase antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.