LARS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LARS, Polyclonal Antibody
Full Product Name	LARS Antibody
Product Gene Name	anti-LARS antibody
Product Synonym Names	Leucine--tRNA ligase, cytoplasmic (EC 6.1.1.4)(Leucyl-tRNA synthetase)(LeuRS)
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	This antibody detects endogenous levels of LARS at Human, Mouse
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	134,466 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (145492589..145562294, complement). Location: 5q32
OMIM	151350
3D Structure	ModBase 3D Structure for Q9P2J5
Immunogen	Synthesized peptide derived from human LARS
Modification	Unmodified/Total
Product Categories/Family for anti-LARS antibody	Primary Antibodies
Applications Tested/Suitable for anti-LARS antibody	Western Blot (WB)
Application Notes for anti-LARS antibody	WB: 1:500-2000
Related Product Information for anti-LARS antibody	MBS9522380 is an antibody targeting LARS. Also known as LARS Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-LARS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LARS. It may not necessarily be applicable to this product.

NCBI GI #	108773810

NCBI GeneID	51520
NCBI Accession #	NP_064502.9
UniProt Primary Accession #	Q9P2J5
UniProt Secondary Accession #	Q9NSE1; A7E266
UniProt Related Accession #	Q9P2J5
GenBank Nucleotide #	NM_020117.9
NCBI Official Full Name	leucine--tRNA ligase, cytoplasmic
NCBI Official Synonym Full Names	leucyl-tRNA synthetase
NCBI Official Symbol	LARS
NCBI Official Synonym Symbols	LRS; LEUS; LARS1; LEURS; PIG44; RNTLS; HSPC192; hr025Cl
UniProt Protein Name	Leucine--tRNA ligase, cytoplasmic
UniProt Synonym Protein Names	Leucyl-tRNA synthetase
Protein Family	Leucine--tRNA ligase
UniProt Gene Name	LARS
UniProt Synonym Gene Names	KIAA1352; LeuRS
UniProt Entry Name	SYLC_HUMAN
NCBI Protein Information	leucine--tRNA ligase, cytoplasmic; leucine translase; leucine-tRNA ligase; proliferation-inducing gene 44; cytosolic leucyl-tRNA synthetase; cytoplasmic leucyl-tRNA synthetase; leucine tRNA ligase 1, cytoplasmic; leucyl-tRNA synthetase, cytoplasmic
NCBI Summary for LARS	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. [provided by RefSeq, Jul 2008]
UniProt Comments for LARS	LARS: Catalyzes the specific attachment of an amino acid to its cognate tRNA in a two step reaction: the amino acid (AA) is first activated by ATP to form AA-AMP and then transferred to the acceptor end of the tRNA. Exhibits a post-transfer editing activity to hydrolyze mischarged tRNAs. Belongs to the class-I aminoacyl-tRNA synthetase family. Protein type: Translation; EC 6.1.1.4; Ligase; Amino Acid Metabolism - valine, leucine and isoleucine biosynthesis Chromosomal Location of Human Ortholog: 5q32 Cellular Component: cytoplasm; nucleus; cytosol Molecular Function: methionine-tRNA ligase activity; leucine-tRNA ligase activity; protein binding; ATP binding Biological Process: leucyl-tRNA aminoacylation; tRNA aminoacylation for protein translation; regulation of translational fidelity; methionyl-tRNA aminoacylation; gene expression Disease: Infantile Liver Failure Syndrome 1
Research Articles on LARS	**1.** Identification of a mutation in LARS as a novel cause of infantile hepatopathy
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