BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Leucyl tRNA synthetase /LARS Antibody Picoband®

Catalog Number: A01109

About LARS

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.

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Overview

Product Name	Anti-Leucyl tRNA synthetase /LARS Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Leucyl tRNA synthetase /LARS Antibody Picoband® catalog # A01109. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9P2J5

Technical Details

Immunogen	E. coli-derived human Leucyl tRNA synthetase/LARS recombinant protein (Q628-Q855).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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	blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml ELISA, 0.1-0.5ug/ml

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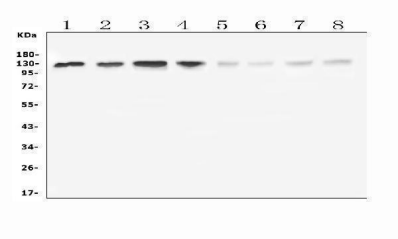
Anti-Leucyl tRNA synthetase /LARS Antibody Picoband® (A01109) Images



Western blot analysis of LARS using anti-LARS antibody (A01109). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HL-60 whole cell lysates,Lane 2: human K562 whole cell lysates,Lane 3: human THP-1 whole cell lysates,Lane 4: human Caco-2 whole cell lysates,Lane 5: rat liver tissue lysates,Lane 6: mouse brain tissue lysates,Lane 7: mouse liver tissue lysates,Lane 8: mouse NIH3T3 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LARS antigen affinity purified polyclonal antibody (Catalog # A01109) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for LARS at approximately 134KD. The expected band size for LARS is at 134KD.

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For Research Use Only. Not for use in diagnostic procedures.