



Datasheet for ABIN2854639

## anti-LIAS antibody



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### 2 Images

#### Overview

Quantity:	100 µL
Target:	LIAS
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LIAS antibody is un-conjugated
Application:	Western Blotting (WB)

#### Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Lipoic acid synthetase. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Rabbit polyclonal antibody to Lipoic acid synthetase (lipoic acid synthetase) Lipoic acid synthetase antibody [N1C2]
Purification:	Purified by antigen-affinity chromatography.

#### Target Details

Target:	LIAS
Alternative Name:	lipoic acid synthetase ( <a href="#">LIAS Products</a> )

## Target Details

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Molecular Weight: 42 kDa

Gene ID: 11019

UniProt: [O43766](#)

Pathways: [Tube Formation](#)

## Application Details

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Application Notes: WB: 1:500-1:3000. Optimal dilutions/concentrations should be determined by the researcher.  
Not tested in other applications.

Comment: Positive Control: Raji

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 mg/mL

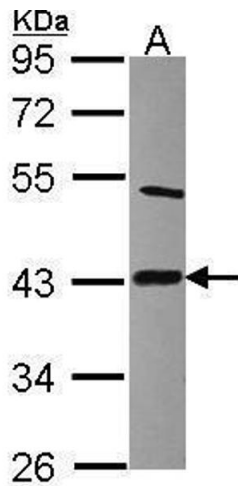
Buffer: 0.1M Tris-Glycine ( pH 7), 20 % Glycerol, 0.01 % Thimerosal

Preservative: Thimerosal (Merthiolate)

Precaution of Use: This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

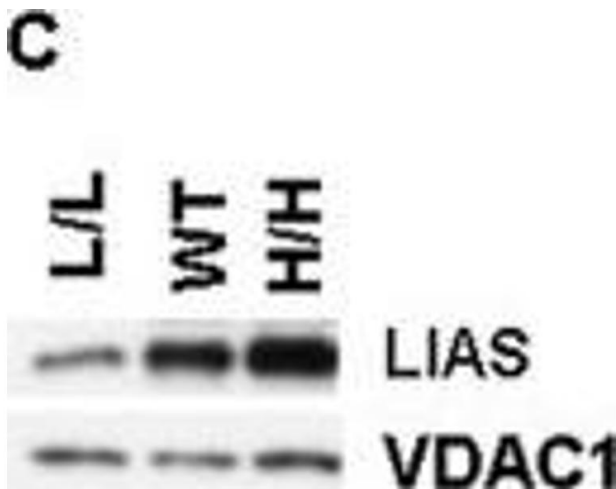
Storage: 4 °C,-20 °C

Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.



### Western Blotting

**Image 1.** WB Image Sample (30 ug of whole cell lysate) A: Raji 10% SDS PAGE antibody diluted at 1:2000



### Western Blotting

**Image 2.** Characterizations of the new mouse model.(A) Generation of mice with genetically graded expression of lipoic acid synthase (Lias). Wild type (top line): Endogenous Lias gene 3'-UTR (white column) is located after exon 11 of Lias gene. The targeting construct (second line): consisted of the 3'-UTR sequences of bovine growth hormone (bGH) gene and a Neo gene, two lox P sites flanking the two fragments, and followed by the 3'-UTR of cFos gene and thymidine kinase gene (TK). H/H (third line): The locus after homologous recombination. Lias expression is now controlled by the 3'-UTR of bGH, which stabilizes Lias mRNA. L/L (bottom line): The locus after Cre-lox P recombination. Lias expression is controlled by the 3'-UTR of cFos, which destabilizes the Lias mRNA. (B) The kidney mRNA levels of Lias in 12-week-old L/L, H/H and WT male mice and in 28-week-old diabetic L/L, H/H and WT male mice. Lias gene expression in the non-diabetic WT mice as a reference for the all six groups of mice. (C) Lipoic acid synthase (LIAS) concentrations of kidney cortex mitochondria, measured by Western blot, and VDAC1 as loading control, in 12-week-old L/L, H/H and WT male mice. n = 5, in each group. (D) The amounts of lipoic acid in non-diabetic LiasHigh/High and LiasLow/Low kidney, detected by Western blot, were quantified by Image Quant software.

Data are expressed as the mean  $\pm$  SE. - figure provided by  
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