

For Research Use Only

# LIAS Monoclonal antibody, PBS Only

Catalog Number: 67298-1-PBS



## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>67298-1-PBS       | <b>GenBank Accession Number:</b><br>BC023635 | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>1 mg/ml                     | <b>GeneID (NCBI):</b><br>11019               | <b>CloneNo.:</b><br>3B5G7                             |
| <b>Source:</b><br>Mouse                     | <b>UNIPROT ID:</b><br>O43766                 |   |
| <b>Isotype:</b><br>IgG1                     | <b>Full Name:</b><br>lipoic acid synthetase  |   |
| <b>Immunogen Catalog Number:</b><br>AG27286 | <b>Calculated MW:</b><br>372 aa, 42 kDa      |   |
|   | <b>Observed MW:</b><br>34-42 kDa             |   |

## Applications

**Tested Applications:**  
WB, ELISA

**Species Specificity:**  
Human, Mouse, Rat, Pig

## Background Information

LIAS (lipoyl synthase, mitochondrial) is also named as LAS and belongs to the radical SAM superfamily and lipoyl synthase family. It produces alpha-lipoic acid, an antioxidant and an essential cofactor in alpha-ketoacid dehydrogenase complexes, which participate in glucose oxidation and ATP generation (PMID:22021711). The deduced 373-amino acid protein has a calculated molecular mass of about 42 kD. The N-terminal 26 amino acids encode a potential mitochondrial targeting presequence that, upon removal, would result in a deduced mature protein of 347 amino acids with a molecular mass of about 39 kD (PMID:11389890). Defects in LIAS are a cause of pyruvate dehydrogenase lipoic acid synthetase deficiency (PDHLD).

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only

For technical support and original validation data for this product please contact:

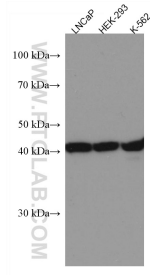
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



LNCaP cells were subjected to SDS PAGE followed by western blot with 67298-1-Ig (LIAS antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67298-1-PBS in a different storage buffer formulation.