

For Research Use Only

# LARS2 Polyclonal antibody

Catalog Number: 17097-1-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

17097-1-AP

### Size:

350 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG10576

### GenBank Accession Number:

BC025989

### GeneID (NCBI):

23395

### UNIPROT ID:

Q15031

### Full Name:

leucyl-tRNA synthetase 2,  
mitochondrial

### Calculated MW:

903 aa, 102 kDa

### Observed MW:

102 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for 1.0-3.0 mg of total  
protein lysate

IHC 1:50-1:500

IF 1:20-1:200

## Applications

### Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human

### Cited Species:

human, mouse, zebrafish

### Positive Controls:

WB : HepG2 cells, Jurkat cells, MCF-7 cells

IP : Jurkat cells,

IHC : human colon cancer tissue,

IF : HepG2 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

LARS2 (Probable leucine--tRNA ligase, mitochondrial) is also named as mitochondrial LEURS. The deduced 903-amino acid protein has an N-terminal mitochondrial targeting signal that is cleaved after residue 39. LARS2 has characteristics of a class I aminoacyl-tRNA synthetase, including a classical Rossmann fold. It belongs to the class-I aminoacyl-tRNA synthetase family.

## Notable Publications

Author	Pubmed ID	Journal	Application
David T Paik	32929989	Circulation	IF
Shujun Feng	35585880	Oxid Med Cell Longev	WB
Elena Perli	24413190	EMBO Mol Med	IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

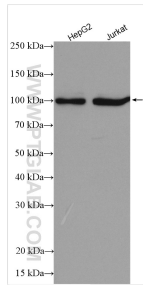
T: 4006900926

E: Proteintech-CN@ptglab.com

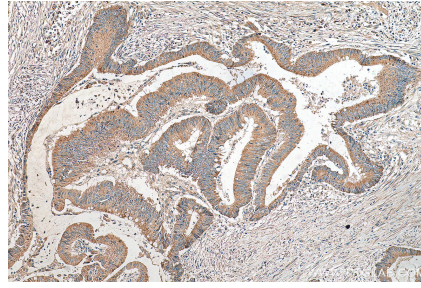
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

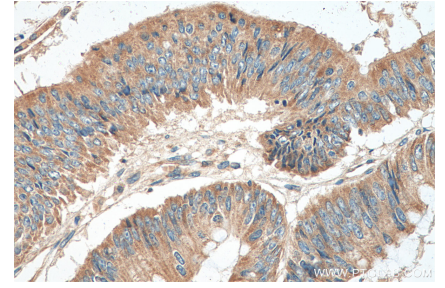
## Selected Validation Data



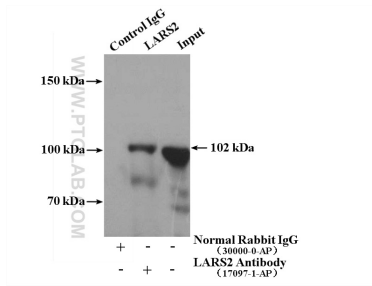
Various lysates were subjected to SDS PAGE followed by western blot with 17097-1-AP (LARS2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



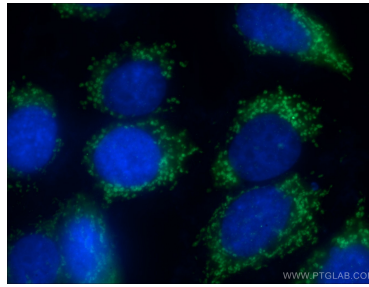
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 17097-1-AP (LARS2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 17097-1-AP (LARS2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-LARS2 (IP:17097-1-AP, 4ug; Detection:17097-1-AP 1:500) with Jurkat cells lysate 2000ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 17097-1-AP (LARS2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).