

For Research Use Only

# LARS2 Polyclonal antibody

Catalog Number: 17097-1-AP

Featured Product

11 Publications



## Basic Information

### Catalog Number:

17097-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop;

### 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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human

### Cited Species:

human, mouse, zebrafish

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

### Positive Controls:

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

IP : Jurkat cells,

IHC : human colon cancer tissue,

IF/ICC : HepG2 cells,

## 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

\*\*\* 20ul sizes contain 0.1% BSA

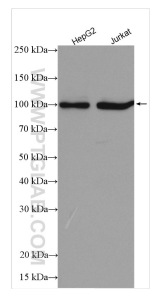
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

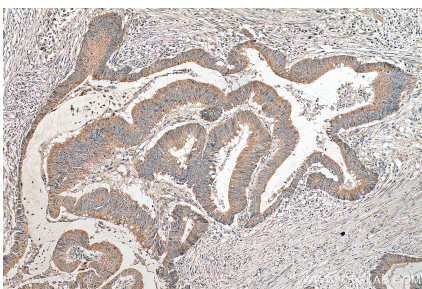
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

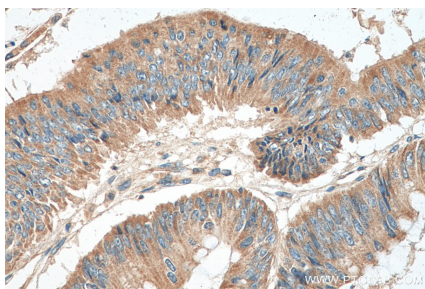
Selected Validation Data



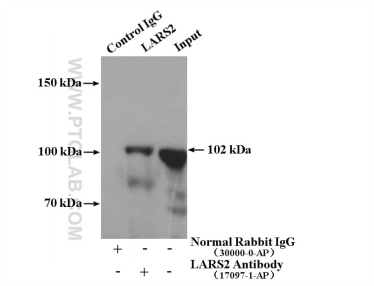
Various lysates were subjected to SDS PAGE followed by western blot with 17097-1-AP (LARS2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



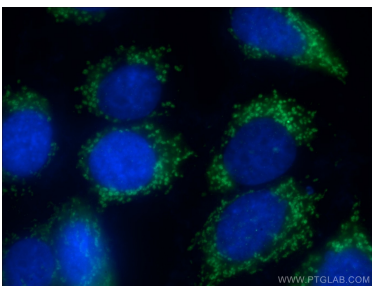
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 17097-1-AP (LARS2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).