

For Research Use Only

# IARS2 Polyclonal antibody

Catalog Number:17170-1-AP

Featured Product

6 Publications



## Basic Information

**Catalog Number:**

17170-1-AP

**Size:**

150ul , Concentration: 500 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG10696

**GenBank Accession Number:**

BC010218

**GeneID (NCBI):**

55699

**UNIPROT ID:**

Q9NSE4

**Full Name:**

isoleucyl-tRNA synthetase 2, mitochondrial

**Calculated MW:**

1012 aa, 114 kDa

**Observed MW:**

114 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

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

IHC 1:50-1:500

IF/ICC 1:10-1:100

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human

**Positive Controls:**

**WB :** HeLa cells, mouse lung tissue, mouse brain tissue, Jurkat cells

**IP :** HeLa cells, Jurkat cells

**IHC :** human liver cancer tissue, human kidney tissue

**IF/ICC :** 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

Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of isoleucine-tRNA synthetase exist, a cytoplasmic form and a mitochondrial form. This gene encodes the mitochondrial isoleucine-tRNA synthetase which belongs to the class-I aminoacyl-tRNA synthetase family.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xin Di	31157169	Front Oncol	WB
Sung-Hoon Kim	33340489	Mol Cell	IF, WB
Yue-Ming Yu	34495060	Rev Assoc Med Bras (1992)	WB

## 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

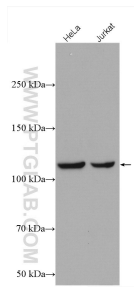
For technical support and original validation data for this product please contact:

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

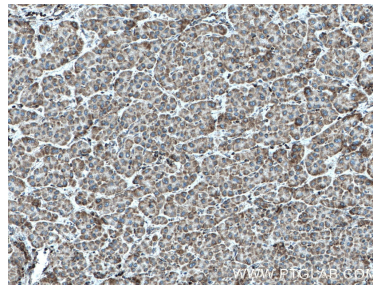
E: proteintech@ptglab.com  
W: ptglab.com

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

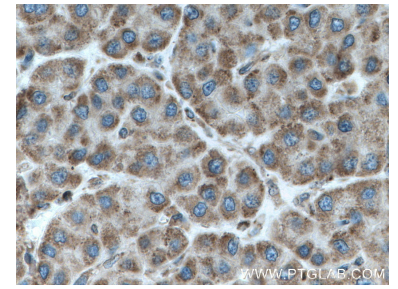
## Selected Validation Data



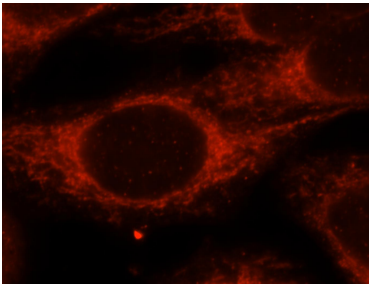
HeLa cells were subjected to SDS PAGE followed by western blot with 17170-1-AP (IARS2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



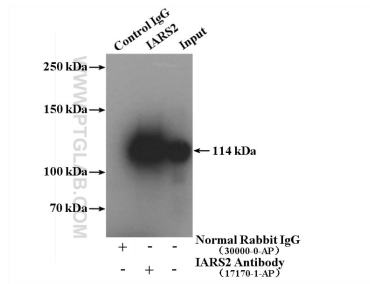
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17170-1-AP (IARS2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



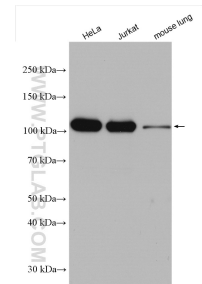
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17170-1-AP (IARS2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells, using IARS2 antibody 17170-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-IARS2 (IP:17170-1-AP, 4ug; Detection:17170-1-AP 1:800) with HeLa cells lysate 4000ug.



Various lysates were subjected to SDS PAGE followed by western blot with 17170-1-AP (IARS2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.