

For Research Use Only

IARS2 Polyclonal antibody

Catalog Number: 17170-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

17170-1-AP

Size:

500 µg/ml

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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:10-1:100

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, 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: 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

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

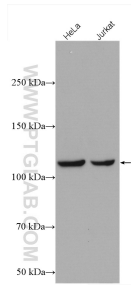
T: 4006900926

E: Proteintech-CN@ptglab.com

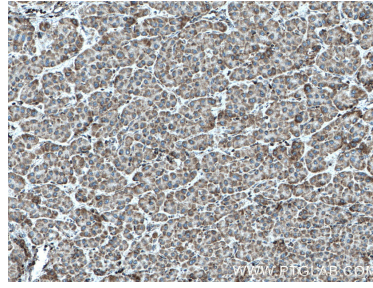
W: ptgcn.com

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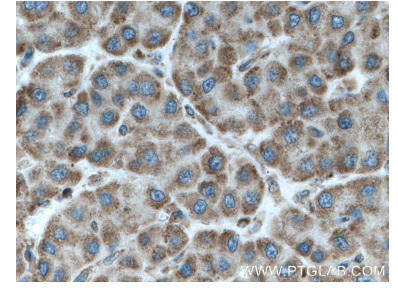
Selected Validation Data



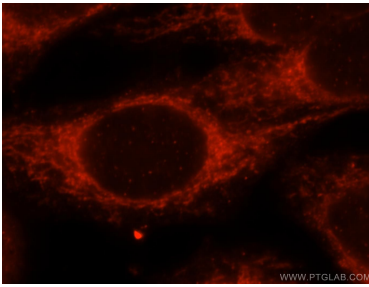
HeLa cells were subjected to SDS PAGE followed by western blot with 17170-1-AP (IARS2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



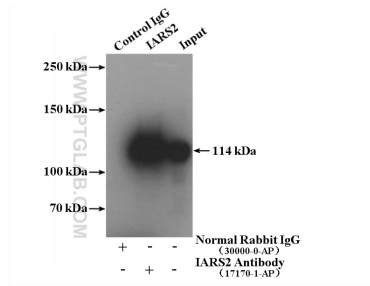
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17170-1-AP (IARS2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



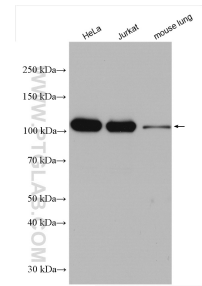
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17170-1-AP (IARS2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



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.