

AlaRS Polyclonal antibody

Catalog Number: 17394-1-AP

Featured Product

1 Publications

Basic Information

Catalog Number:

17394-1-AP

Size:

400 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG11294

GenBank Accession Number:

BC011451

GeneID (NCBI):

16

UNIPROT ID:

P49588

Full Name:

alanyl-tRNA synthetase

Calculated MW:

968 aa, 107 kDa

Observed MW:

107 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

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

IHC 1:20-1:200

IF 1:20-1:200

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

IHC, WB

Species Specificity:

human

Cited Species:

human

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

IP : HepG2 cells,

IHC : human liver tissue,

IF : HepG2 cells,

Background Information

AARS(alanyl-tRNA synthetase) is also named as AlaRS(alanine tRNA ligase 1, cytoplasmic), renal carcinoma antigen NY-REN-42 and belongs to the class-II aminoacyl-tRNA synthetase family. It can interpret the RNA code and attach specific amino acids to the tRNAs that contain the cognate trinucleotide anticodons. AARS consists of three domains: the N-terminal catalytic domain, the editing domain and the C-terminal C-Ala domain. The editing domain removes incorrectly charged amino acids, while the C-Ala domain, along with tRNA(Ala), serves as a bridge to cooperatively bring together the editing and aminoacylation centers thus stimulating deacylation of misacylated tRNAs(PMID:19661429).

Notable Publications

Author	Pubmed ID	Journal	Application
Lingling Li	36991000	Nat Commun	WB,IHC

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

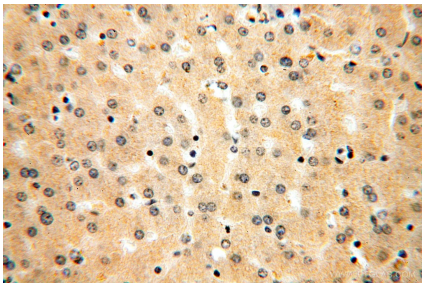
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

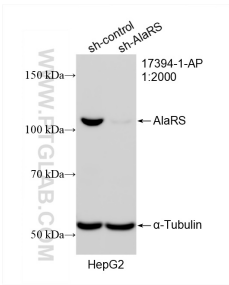
Selected Validation Data



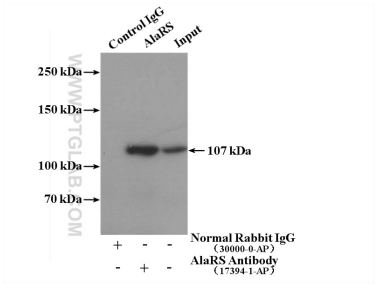
HepG2 cells were subjected to SDS PAGE followed by western blot with 17394-1-AP (AlaRS antibody at dilution of 1:1500 incubated at room temperature for 1.5 hours.



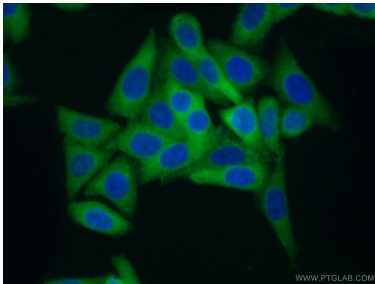
Immunohistochemical analysis of paraffin-embedded human liver using 17394-1-AP (AlaRS antibody) at dilution of 1:100 (under 40x lens).



WB result of AlaRS antibody (17394-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AlaRS transfected HepG2 cells.



IP result of anti-AlaRS (IP:17394-1-AP, 4ug; Detection:17394-1-AP 1:500) with HepG2 cells lysate 2400ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 17394-1-AP (AlaRS antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).