

For Research Use Only

AlaRS Monoclonal antibody, PBS Only

Catalog Number: 67909-1-PBS

Featured Product



Basic Information

Catalog Number:

67909-1-PBS

Concentration:

1mg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG11151

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:

Protein G purification

CloneNo.:

1C8H3

Applications

Tested Applications:

WB, IF/ICC, IF-P, Indirect ELISA

Species Specificity:

human, mouse, rat

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 aminoacids 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).

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

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

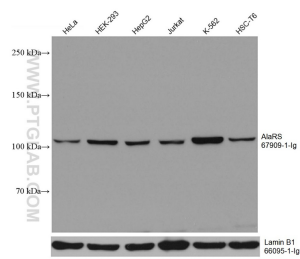
T: 4006900926

E: Proteintech-CN@ptglab.com

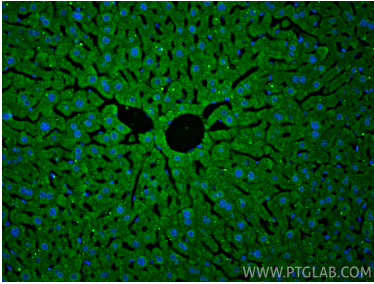
W: ptgcn.com

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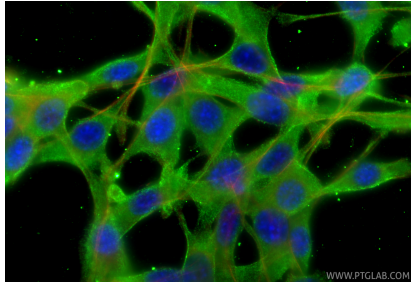
Selected Validation Data



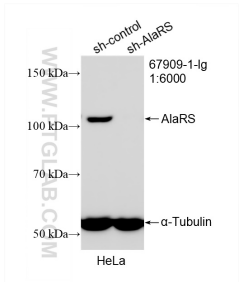
Various lysates were subjected to SDS PAGE followed by western blot with 67909-1-Ig (AlaRS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Lamin B1 Monoclonal antibody (66095-1-Ig) as loading control. This data was developed using the same antibody clone with 67909-1-PBS in a different storage buffer formulation.



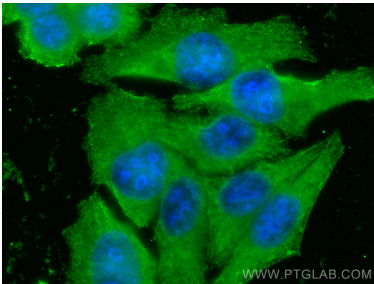
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using Alars antibody (67909-1-Ig, Clone: 1C8H3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67909-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using Alars antibody (67909-1-Ig, Clone: 1C8H3) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red). This data was developed using the same antibody clone with 67909-1-PBS in a different storage buffer formulation.



WB result of Alars antibody (67909-1-Ig; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Alars transfected HeLa cells. This data was developed using the same antibody clone with 67909-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Alars antibody (67909-1-Ig, Clone: 1C8H3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 67909-1-PBS in a different storage buffer formulation.