

For Research Use Only

AlaRS Monoclonal antibody

Catalog Number: 67909-1-Ig

Featured Product



Basic Information

Catalog Number:

67909-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by 16
Nanodrop;

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 A purification

CloneNo.:

1C8H3

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

Human, Mouse, Rat

Positive Controls:

WB : HeLa cells, NIH/3T3 cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, 4T1 cells

IF/ICC : HepG2 cells, A431 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 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 -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

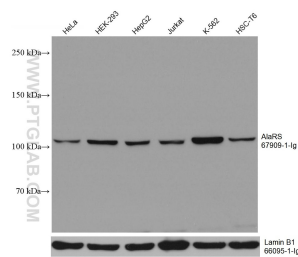
For technical support and original validation data for this product please contact:

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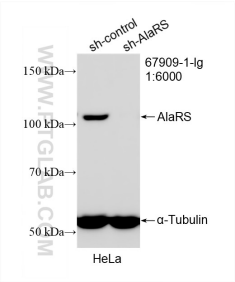
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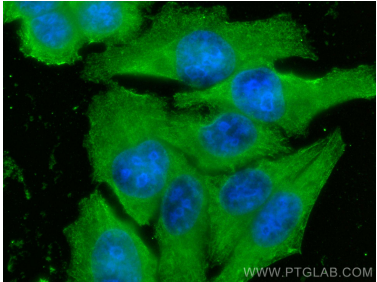
Selected Validation Data



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.



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.



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).