

For Research Use Only

AlaRS Monoclonal antibody

Catalog Number: 67909-1-Ig **Featured Product**



Basic Information

| | | |
|-------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------|
| Catalog Number: 67909-1-Ig | GenBank Accession Number: BC011451 | Purification Method: Protein A purification |
| Size: 150ul , Concentration: 1000 µg/ml by Nanodrop; | GeneID (NCBI): 16 | CloneNo.: 1C8H3 |
| Source: Mouse | Full Name: alanyl-tRNA synthetase | Recommended Dilutions: WB 1:5000-1:50000 IF 1:200-1:800 |
| Isotype: IgG1 | Calculated MW: 968 aa, 107 kDa | |
| Immunogen Catalog Number: AG11151 | Observed MW: 107 kDa | |

Applications

Tested Applications:
IF, WB, 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 : 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.

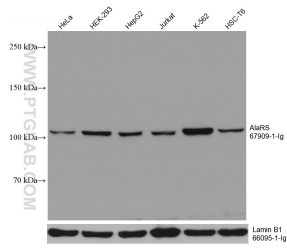
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

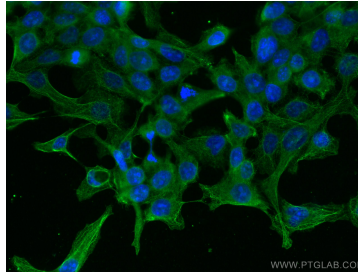
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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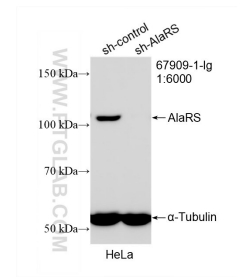
Selected Validation Data



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.



Immunofluorescent analysis of (-20°C Methanol) fixed A431 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).



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.