

For Research Use Only

# AlaRS Monoclonal antibody, PBS Only



Catalog Number: 67909-1-PBS

Featured Product

## Basic Information

<b>Catalog Number:</b> 67909-1-PBS	<b>GenBank Accession Number:</b> BC011451	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 16	<b>CloneNo.:</b> 1C8H3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P49588	
<b>Isotype:</b> IgG1	<b>Full Name:</b> alanyl-tRNA synthetase	
<b>Immunogen Catalog Number:</b> AG11151	<b>Calculated MW:</b> 968 aa, 107 kDa	
	<b>Observed MW:</b> 107 kDa	

## Applications

**Tested Applications:**  
WB, IF, 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

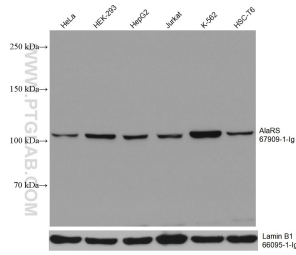
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

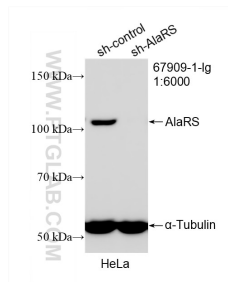
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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

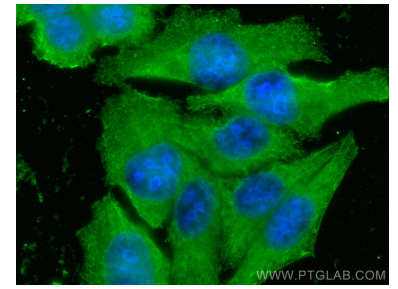
## Selected Validation Data



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.



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.