For Research Use Only

## AlaRS Polyclonal antibody Catalog Number: 17394-1-AP Featured Product

Featured Product





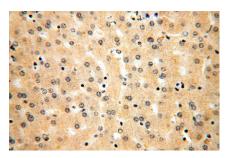
Basic Information	Catalog Number: 17394-1-AP	GenBank Accession Number: BC011451		Purification Method: Antigen affinity purification	
	Concentration:	GeneID (NCBI):		Recommended Dilutions:	
	400 µg/ml	16		WB 1:500-1:3000 IP 0.5-4.0 ug for 1.0-3.0 mg of total	
	Source: Rabbit	UNIPROT ID: P49588 Full Name:		IP 0.5-4.0 ug for 1.0-5.0 mg of totat protein lysate IHC 1:20-1:200 IF/ICC 1:200-1:800	
	Isotype:				
	IgG	alanyl-tRNA synthetase			
	Immunogen Catalog Number: AG11294	Calculated MW: 968 aa, 107 kDa			
		Observed MW: 107 kDa			
Applications	Tested Applications:	Positive Controls:			
	WB, IHC, IF/ICC, IP, ELISA WB : Hep Cited Applications:		WB:HepG2	2 cells, Jurkat cells	
	WB, IHC, CoIP		IP:HepG2	cells,	
	Species Specificity:			uman liver tissue,	
	human Cited Species	IF/ICC : HepG2 cells,			
	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				
Background Information	AARS(alanyl-tRNA synthetase) is also named as AlaRS(alanine tRNA ligase 1, cytoplasmic), renal carcinoma antiger 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).				
		Pubmed ID 3	lournal	Application	
Notable Publications	Author				
Notable Publications			Sci Adv	WB	
Notable Publications	Matthew D Tyl	39772686	Sci Adv Cancer Lett	WB ColP	
Notable Publications	Matthew D Tyl	39772686 S 39645025 O			

For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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

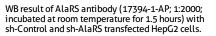
## Selected Validation Data

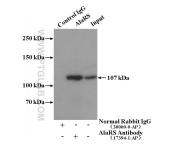




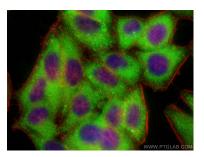
str.control Andrés 150 kDa→ 100 kDa→ 70 kDa→ 50 kDa→ HepG2

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





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



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using AlaRS antibody (17394-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).