

For Research Use Only

# GARS Polyclonal antibody

Catalog Number: 15831-1-AP

Featured Product

10 Publications



## Basic Information

<b>Catalog Number:</b> 15831-1-AP	<b>GenBank Accession Number:</b> BC007755	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 µg/ml by Nanodrop and 187 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2617	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> glycyl-tRNA synthetase	<b>IHC 1:50-1:500</b> <b>IF 1:10-1:100</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 739 aa, 83 kDa	
<b>Immunogen Catalog Number:</b> AG8322	<b>Observed MW:</b> 75-80 kDa	

## Applications

**Tested Applications:**  
IF, IHC, IP, WB, ELISA

**Cited Applications:**  
CoIP, IF, IHC, RIP, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse, Drosophila

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** human brain tissue, HeLa cells, HepG2 cells, HT-1080 cells

**IP :** mouse liver tissue,

**IHC :** human skin cancer tissue,

**IF :** HepG2 cells,

## Background Information

GARS(glycinamide ribonucleotide synthetase) perform an essential function in protein synthesis by catalyzing the esterification of an amino acid to its cognate tRNA.GARS, however, is a ubiquitously expressed α2 homodimer responsible for charging tRNA molecules with glycine, this enzyme is essential for protein synthesis in all cells and tissues(PMID:17035524).It can exist as a oligomer with 250KDa(PMID:22504945).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xinping Lu	33073493	EMBO Rep	WB,RIP
Yingying Zhao	34053152	Aging Cell	WB
Ning Xu	35659036	J Hematol Oncol	WB

## Storage

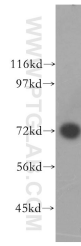
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

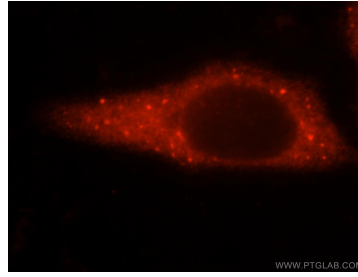
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

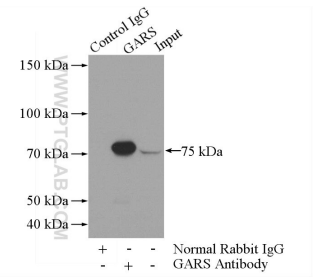
## Selected Validation Data



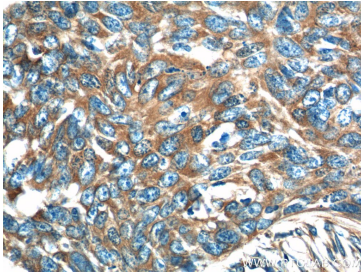
human brain tissue were subjected to SDS PAGE followed by western blot with 15831-1-AP (GARS antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



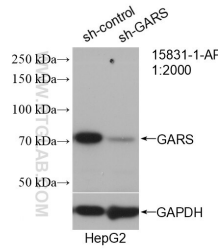
Immunofluorescent analysis of HepG2 cells, using GARS antibody 15831-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP Result of anti-GARS (IP:15831-1-AP, 4 $\mu$ g; Detection:15831-1-AP 1:500) with mouse liver tissue lysate 4000 $\mu$ g.



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 15831-1-AP (GARS Antibody) at dilution of 1:200 (under 40x lens).



WB result of GARS antibody (15831-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GARS transfected HepG2 cells.