

For Research Use Only

GARS Polyclonal antibody

Catalog Number:15831-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number:

15831-1-AP

Size:

150ul , Concentration: 300 ug/ml by Nanodrop and 187 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8322

GenBank Accession Number:

BC007755

GeneID (NCBI):

2617

UNIPROT ID:

P41250

Full Name:

glycyl-tRNA synthetase

Calculated MW:

739 aa, 83 kDa

Observed MW:

75-80 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, CoIP, RIP

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, mouse brain tissue

IF/ICC : 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

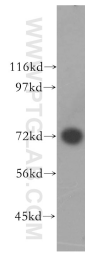
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

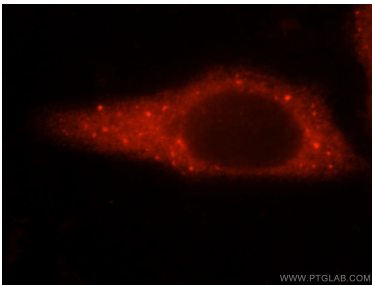
E: proteintech@ptglab.com
W: ptglab.com

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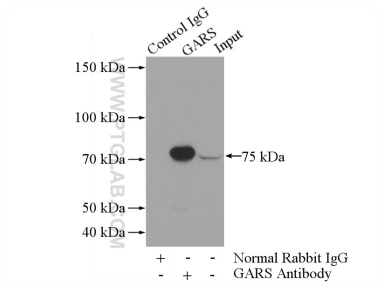
Selected Validation Data



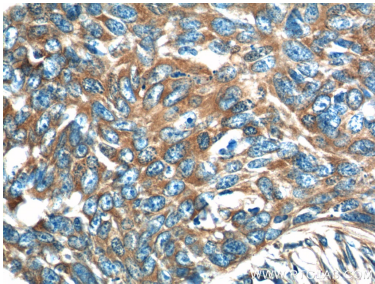
human brain tissue were subjected to SDS PAGE followed by western blot with 15831-1-AP (GARS antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



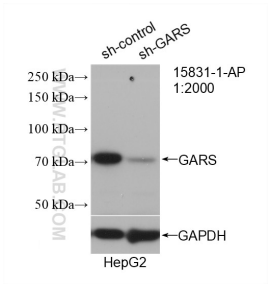
Immunofluorescent analysis of HepG2 cells, using GARS antibody 15831-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



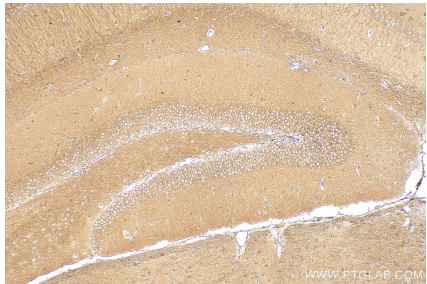
IP result of anti-GARS (IP:15831-1-AP, 4ug; Detection:15831-1-AP 1:500) with mouse liver tissue lysate 4000ug.



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.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15831-1-AP (GARS antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).