

For Research Use Only

GARS Polyclonal antibody

Catalog Number: 15831-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

15831-1-AP

Size:

150UL, Concentration: 187 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8322

GenBank Accession Number:

BC007755

GeneID (NCBI):

2617

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 µg for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

IF 1:10-1:100

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

IF, RIP, WB

Species Specificity:

human, mouse, rat

Cited Species:

Drosophila, human, mouse

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, human liver tissue, human testis 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
Sven Niehues	26138142	Nat Commun	WB
Veronick Benoy	29415205	Brain	WB,IF

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

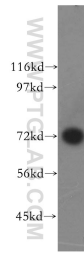
For technical support and original validation data for this product please contact:

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

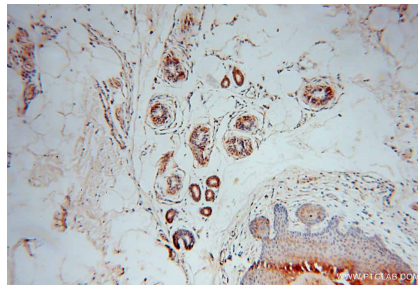
E: proteintech@ptglab.com
W: ptglab.com

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

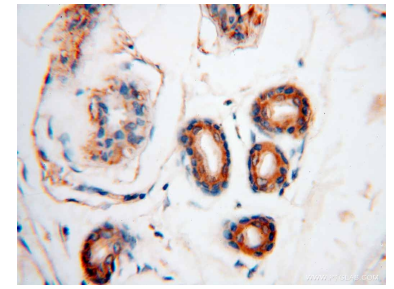
Selected Validation Data



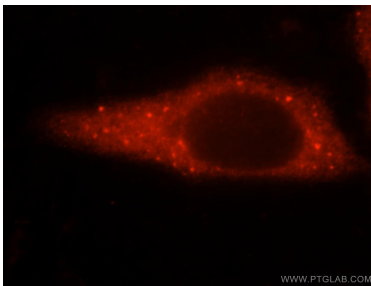
human brain tissue were subjected to SDS PAGE followed by western blot with 15831-1-AP (GARS antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



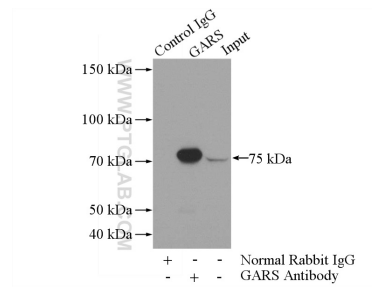
Immunohistochemical analysis of paraffin-embedded human skin cancer using 15831-1-AP (GARS antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skin cancer using 15831-1-AP (GARS antibody) at dilution of 1:50 (under 40x lens).



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.