

For Research Use Only

GlnRS Polyclonal antibody

Catalog Number: 12645-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number: 12645-1-AP	GenBank Accession Number: BC016634	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 700 µg/ml by Nanodrop and 400 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5859	Recommended Dilutions: WB 1:2000-1:8000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: glutaminyl-tRNA synthetase	IHC 1:500-1:1500
Isotype: IgG	Calculated MW: 775 aa, 88 kDa	IF 1:10-1:100
Immunogen Catalog Number: AG3375	Observed MW: 88 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls: WB : HeLa cells, HepG2 cells, NIH/3T3 cells, PC-3 cells
Cited Applications: RIP, WB	IP : PC-3 cells,
Species Specificity: human, mouse, rat	IHC : human prostate cancer tissue,
Cited Species: human	IF : PC-3 cells,

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

GlnRS (glutaminyl-tRNA synthetase) is a class I aminoacyl-tRNA synthetase. Aminoacyl-tRNA synthetases are enzymes that charge tRNAs with their cognate amino acids. The specificity of this reaction determines the fidelity of mRNA translation. At least 1 synthetase exists in the cytoplasm for each amino acid. GlnRS is present in eukaryotes but is absent from many prokaryotes, mitochondria, and chloroplasts, in which Gln-tRNA(Gln) is formed by transamidation of the misacylated Glu-tRNA(Gln) (PMID:8078941).

Notable Publications

Author	Pubmed ID	Journal	Application
Xinping Lu	33073493	EMBO Rep	WB, RIP
Maria C Passarelli	35288656	Nat Cell Biol	WB
Haissi Cui	33341895	Nucleic Acids Res	WB

Storage

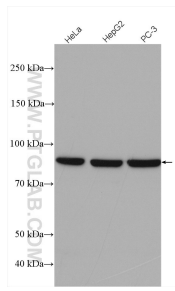
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

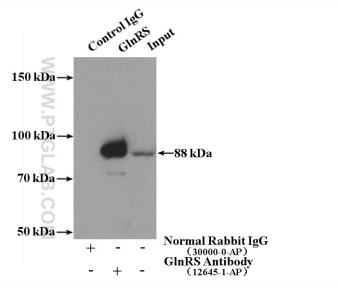
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

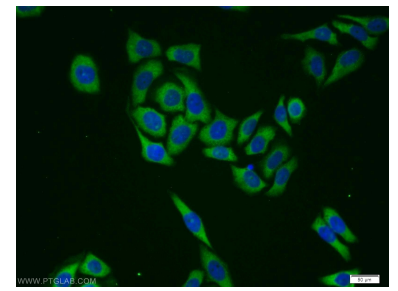
Selected Validation Data



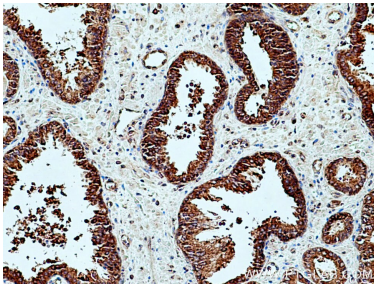
Various lysates were subjected to SDS PAGE followed by western blot with 12645-1-AP (GlnRS antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



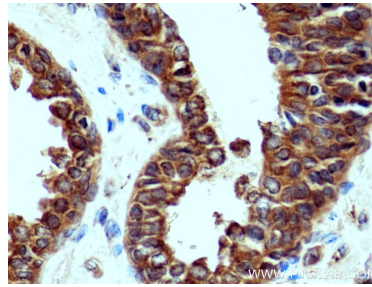
IP Result of anti-GlnRS (IP:12645-1-AP, 4ug; Detection:12645-1-AP 1:500) with PC-3 cells lysate 3200ug.



Immunofluorescent analysis of PC-3 cells using 12645-1-AP (GlnRS antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 12645-1-AP (GlnRS antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 12645-1-AP (GlnRS antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).