For Research Use Only

GlnRS Polyclonal antibody

Catalog Number:12645-1-AP Featured Product 4 Publications

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Basic Information

Catalog Number:
12645-1-AP

Size:
150ul , Concentration: 700 µg/ml by Nanodrop and 400 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3375

GenBank Accession Number:
BC016634

GeneID (NCBI):
5859

UNIPROT ID:
P47897

Full Name:
glutaminyl-tRNA synthetase

Calculated MW:
775 aa, 88 kDa

Observed MW:
88 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:8000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:500-1:1500
IF/ICC 1:10-1:100

Applications

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

Cited Applications:
WB, RIP

Species Specificity:
human, mouse, rat

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

Positive Controls:

WB : HeLa cells, HepG2 cells, NIH/3T3 cells, PC-3 cells

IP : PC-3 cells,

IHC : human prostate cancer tissue,

IF/ICC : PC-3 cells,

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

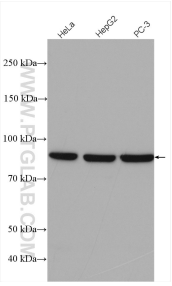
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

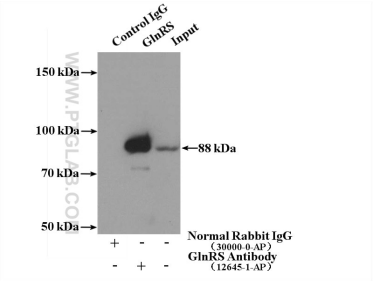
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

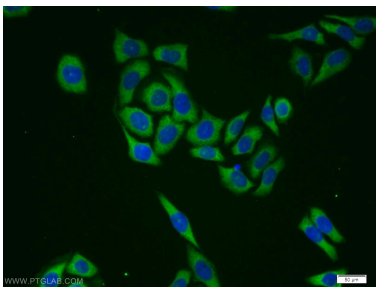
Selected Validation Data



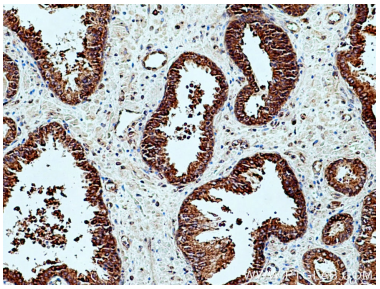
Various lysates were subjected to SDS PAGE followed by western blot with 12645-1-AP (GlnRS antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



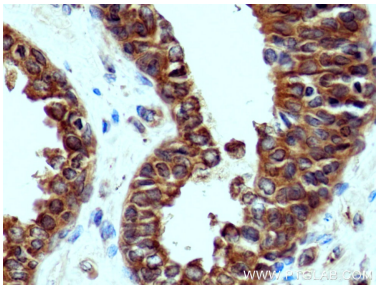
IP result of anti-GlnRS (IP:12645-1-AP, 4ug; Detection:12645-1-AP 1:500) with PC-3 cells lysate 3200ug.



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).