

For Research Use Only

GlnRS Polyclonal antibody

Catalog Number: 12645-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

12645-1-AP

Size:

700 ug/ml

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 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, 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 : HeLa cells, 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

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

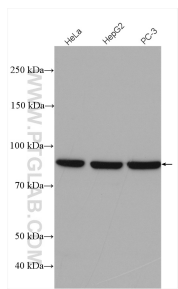
T: 4006900926

E: Proteintech-CN@ptglab.com

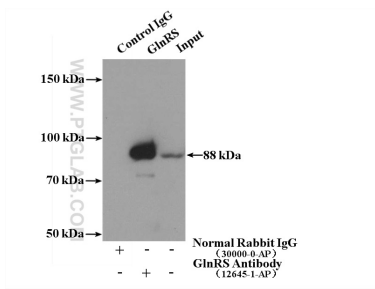
W: ptgcn.com

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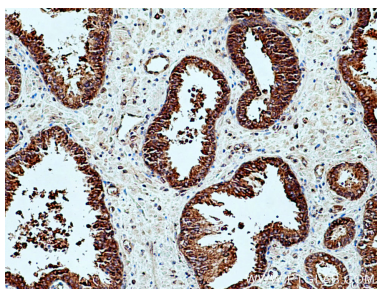
Selected Validation Data



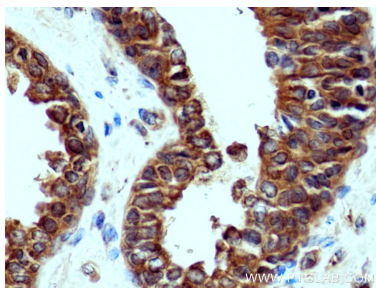
Various lysates were subjected to SDS PAGE followed by western blot with 12645-1-AP (GlnRS antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



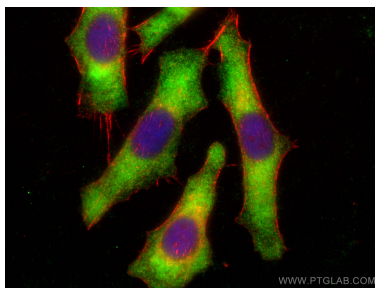
IP result of anti-GlnRS (IP:12645-1-AP, 4ug; Detection:12645-1-AP 1:500) with PC-3 cells lysate 3200ug.



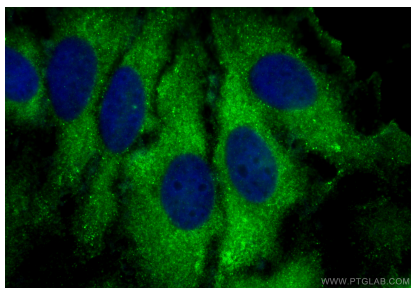
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 12645-1-AP (GlnRS antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-3 cells using GlnRS antibody (12645-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using GlnRS antibody (12645-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).