

GlnRS Polyclonal Antibody

Catalog number: 12645-1-AP

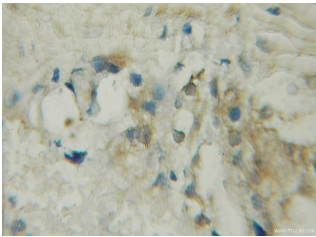
Size: 20 µg/150 µl

Source: Rabbit

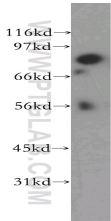
Isotype: IgG

Synonyms:

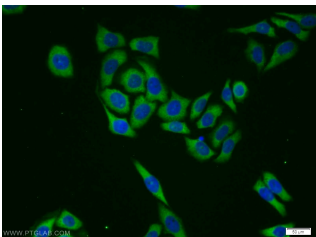
QARS; GlnRS, Glutamine tRNA ligase, glutamyl tRNA synthetase, PRO2195, QARS



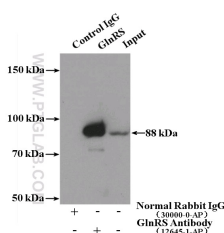
Immunohistochemical of paraffin-embedded human prostate cancer using 12645-1-AP(QARS antibody) at dilution of 1:50 (under 10x lens)



PC-3 cells were subjected to SDS PAGE followed by western blot with 12645-1-AP(QARS antibody) at dilution of 1:500



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



IP Result of anti-QARS
(IP:12645-1-AP, 4µg;

Background

GlnRS (glutamyl-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).

Applications

Tested applications:	ELISA, WB, IHC, IF, IP
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated GlnRS MW:	775aa, 88 kDa
Observed GlnRS MW:	88 kDa
Positive WB detected in	PC-3 cells
Positive IP detected in	PC-3 cells
Positive IHC detected in	Human prostate cancer tissue
Positive IF detected in	PC-3 cells
Recommended dilution:	WB: 1:500-1:5000
	IP: 1:200-1:2000
	IHC: 1:20-1:200
	IF: 1:10-1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3375
GenBank accession number:	BC016634
Gene ID (NCBI):	5859
Full name:	Glutamyl-tRNA synthetase

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

Detection:12645-1-AP 1:500)
with P C-3 cells lysate 3200ug.