



Rabbit Anti-QARS/Glutamyl Prolyl tRNA synthetase/ProRS antibody

SL13393R

Product Name:	QARS/Glutamyl Prolyl tRNA synthetase/ProRS
Chinese Name:	谷氨酰-脯氨酰-tRNA合成酶抗体
Alias:	Bifunctional aminoacyl tRNA synthetase; Bifunctional aminoacyl-tRNA synthetase; Bifunctional glutamate/proline tRNA ligase; Cell proliferation-inducing gene 32 protein; DKFZp313B047; EARS; Eprs; GLNS; Glu pro tRNA synthetase; GLUPRORS; GluRS; Glutamate tRNA ligase; Glutametyl prolyl tRNA synthetase; Glutaminyl tRNA synthetase; Glutamyl prolyl tRNA synthetase; Glutamyl tRNA synthetase; Glutamyl-tRNA synthetase; PARS; PIG 32; PIG32; Proliferation inducing gene 32 protein; Proliferation inducing protein 32; Proline tRNA ligase; Proline--tRNA ligase; Prolyl tRNA synthetase; Prolyl-tRNA synthetase; QARS; QPRS; SYEP_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	171kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Glutamyl Prolyl tRNA synthetase/ProRS:651-750/1512
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year

	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>The fidelity of protein synthesis requires efficient discrimination of amino acid substrates by aminoacyl-tRNA synthetases. Aminoacyl-tRNA synthetases function to catalyze the aminoacylation of tRNAs by their corresponding amino acids, thus linking amino acids with tRNA-contained nucleotide triplets. ProRS (Prolyl-tRNA synthetase), also known as EPRS, EARS, PARS, QARS, QPRS, PIG32 or GLUPRORS, is a 1,512 amino acid protein that contains three WHEP-TRS domains and belongs to both the class-I and class-II aminoacyl-tRNA synthetase family. Functioning as a component of the multisynthase complex, ProRS uses ATP to catalyze the conversion of L-glutamate and tRNA(Glu) to L-glutamyl-tRNA(Glu), as well as the conversion of L-proline and tRNA(Pro) to L-prolyl-tRNA(Pro).</p> <p>Function: Catalyzes the attachment of the cognate amino acid to the corresponding tRNA in a two-step reaction: the amino acid is first activated by ATP to form a covalent intermediate with AMP and is then transferred to the acceptor end of the cognate tRNA.</p> <p>Subunit: Component of the multisynthetase complex which is comprised of a bifunctional glutamyl-prolyl-tRNA synthetase, the monospecific isoleucyl, leucyl, glutaminyl, methionyl, lysyl, arginyl, and aspartyl-tRNA synthetases as well as three auxiliary proteins, p18, p48 and p43. Interacts with DUS2L. Component of the GAIT complex; in humans the complex assembly seems to be a two-step process in which EPRS first associates with SYNCRIP to form a pre-GAIT complex which is deficient in GAIT element binding.</p> <p>Post-translational modifications: Phosphorylated at Ser-886 by CDK5 in a IFN-gamma-dependent manner; this phosphorylation activates assembly of the GAIT (IFN-gamma-activated inhibitor of translation) complex, which suppresses expression of a post-transcriptional regulon of proinflammatory genes in myeloid cells.</p> <p>Similarity: In the N-terminal section; belongs to the class-I aminoacyl-tRNA synthetase family. In the C-terminal section; belongs to the class-II aminoacyl-tRNA synthetase family. Contains 3 WHEP-TRS domains.</p> <p>SWISS: P07814</p> <p>Gene ID: 5859</p> <p>Database links:</p>

[Entrez Gene: 5859](#) Human

[Omim: 603727](#) Human

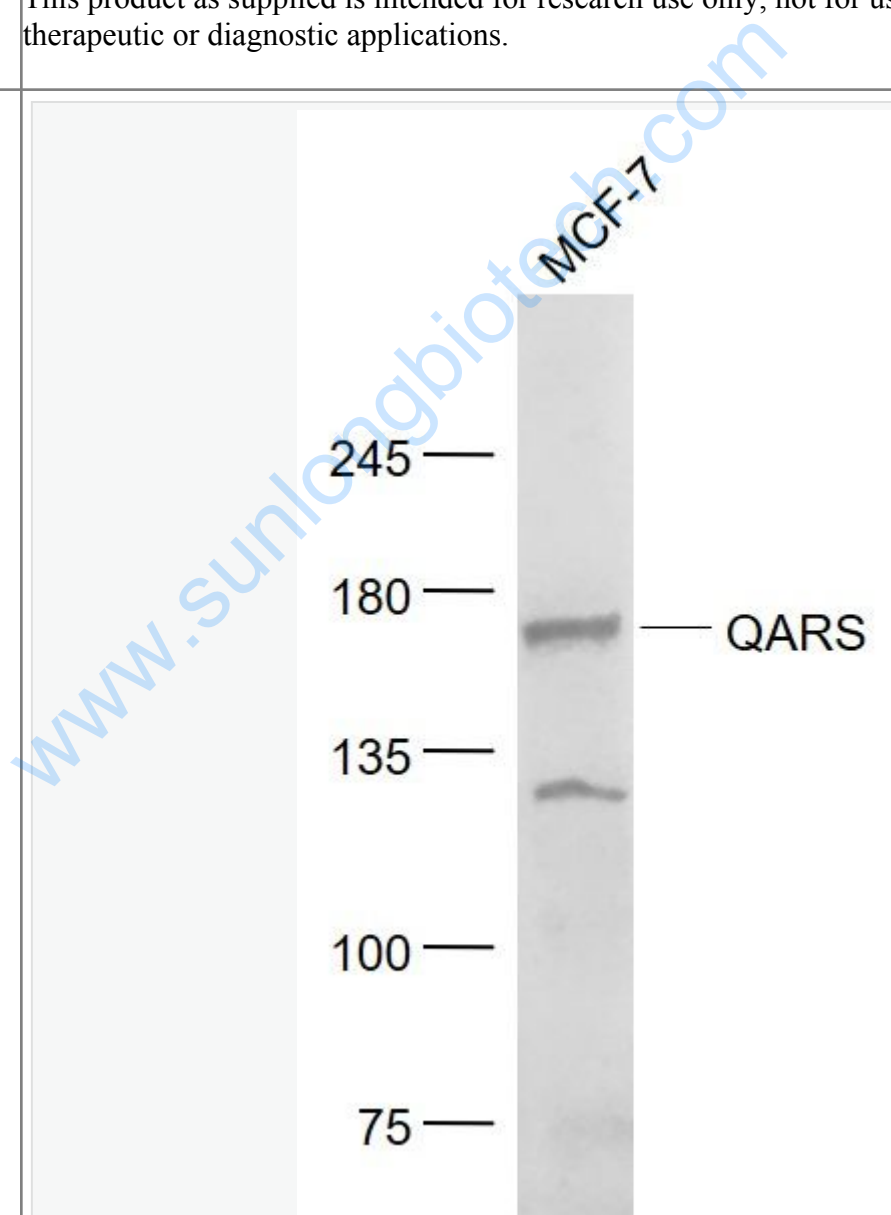
[SwissProt: P47897](#) Human

[Unigene: 79322](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

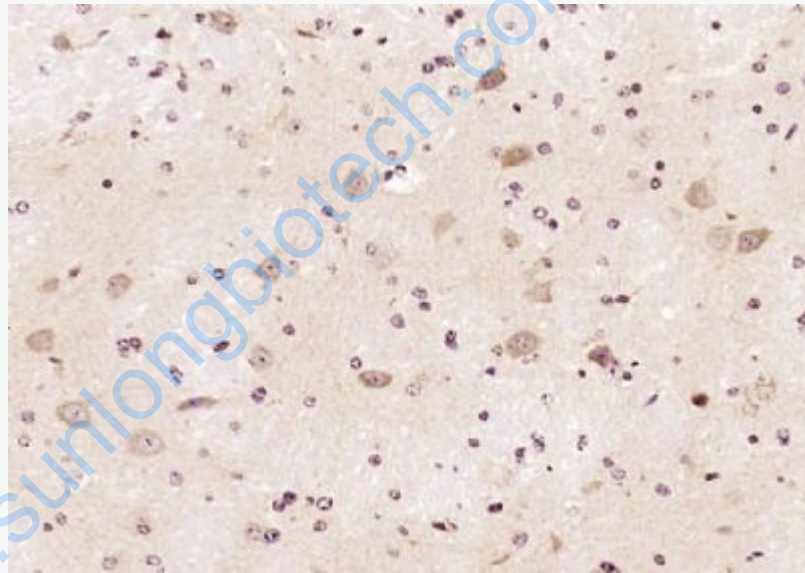
MCF-7(Human) Cell Lysate at 30 ug

Primary: Anti- QARS (SL13393R) at 1/1000 dilution

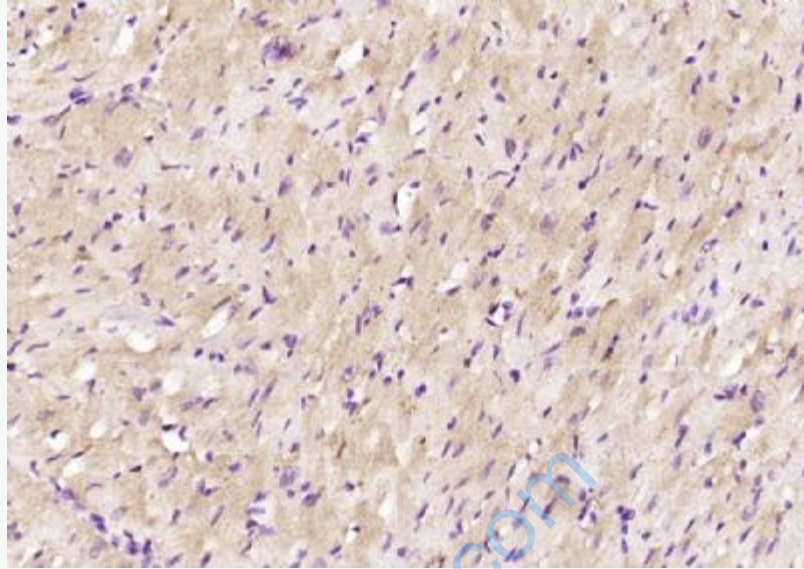
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 171 kD

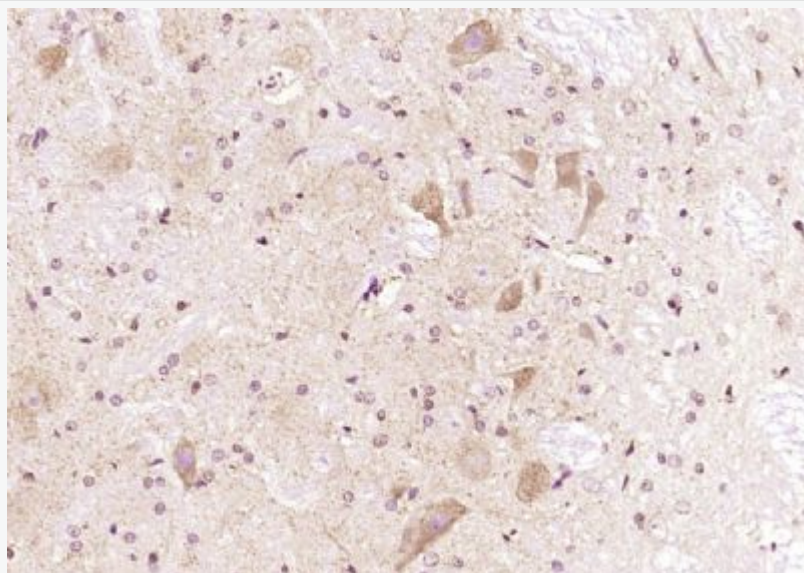
Observed band size: 171 kD



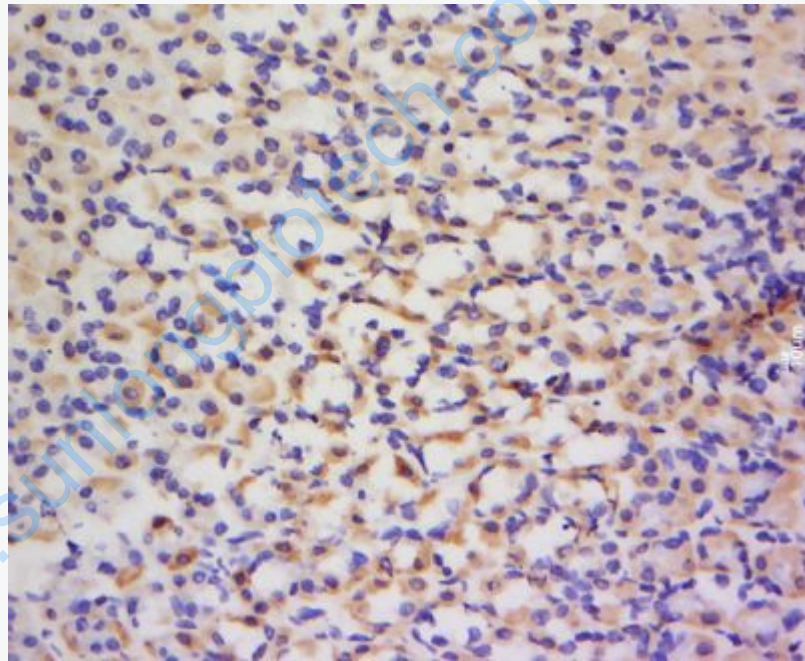
Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (QARS Glutamyl Prolyl tRNA synthetase) Polyclonal Antibody, Unconjugated (SL13393R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (QARS Glutamyl Prolyl tRNA synthetase) Polyclonal Antibody, Unconjugated (SL13393R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (QARS Glutamyl Prolyl tRNA synthetase) Polyclonal Antibody, Unconjugated (SL13393R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: Rat stomach tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Glutamyl Prolyl tRNA synthetase/ProRS Polyclonal Antibody, Unconjugated(SL13393R) 1:200, overnight at 4°C, followed by conjugation to the

	secondary antibody(SP-0023) and DAB(C-0010) staining
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