



Rabbit Anti-Seryl-tRNA synthetase antibody

SL19667R

Product Name:	Seryl-tRNA synthetase
Chinese Name:	丝氨酸tRNA连接酶抗体
Alias:	C78314; cytoplasmic; EC 6.1.1.11; FLJ36399; sarS; Sars1; Serine tRNA ligase 1, cytoplasmic; Serine tRNA ligase; Serine--tRNA ligase; serine--tRNA ligase, cytoplasmic; SerRS; SERS; Seryl tRNA Ser/Sec synthetase; Seryl tRNA synthetase; Seryl tRNA synthetase cytoplasmic; Seryl-tRNA Ser/Sec synthetase; Seryl-tRNA synthetase; seryl-tRNA synthetase, cytoplasmic; Seryl-tRNA(Ser/Sec) synthetase; Strs; SYSC HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=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:	59kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Seryl-tRNA synthetase:301-400/514
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:	This gene belongs to the class II amino-acyl tRNA family. The encoded enzyme

catalyzes the transfer of L-serine to tRNA (Ser) and is related to bacterial and yeast counterparts. Multiple alternatively spliced transcript variants have been described but the biological validity of all variants is unknown. [provided by RefSeq, Jul 2010]

Function:

Catalyzes the attachment of serine to tRNA(Ser). Is also probably able to aminoacylate tRNA(Sec) with serine, to form the misacylated tRNA L-seryl-tRNA(Sec), which will be further converted into selenocysteinyl-tRNA(Sec).

Subunit:

Homodimer. The tRNA molecule binds across the dimer (By similarity).

Subcellular Location:

Cytoplasm.

Post-translational modifications:

Phosphorylated upon DNA damage, probably by ATM or ATR.

Similarity:

Belongs to the class-II aminoacyl-tRNA synthetase family. Type-1 seryl-tRNA synthetase subfamily.

SWISS:

P49591

Gene ID:

6301

Database links:

[Entrez Gene: 6301](#) Human

[Entrez Gene: 20226](#) Mouse

[Omim: 607529](#) Human

[SwissProt: P49591](#) Human

[SwissProt: P26638](#) Mouse

[Unigene: 531176](#) Human

[Unigene: 28688](#) Mouse

Important Note:

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