

Rabbit Anti-QRSL/Cy5.5 Conjugated antibody

SL21123R-Cy5.5

Product Name	Anti-QRSL/Cy5.5
Chinese Name	Cy5.5 标记的谷氨酰-tRNA 合成酶蛋白 1 抗体
Alias	2700038P16Rik; C80053; DKFZp564C1278; FLJ10989; FLJ12189; FLJ13447; GatA; Glutaminyl tRNA synthase (glutamine hydrolyzing) like 1; Glutaminyl tRNA synthase like protein 1; Glutamyl tRNA(Gln) amidotransferase subunit A, mitochondrial; MGC105526; OTTMUSP00000026615.
Research Area	transcriptional regulatory factor Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Dog,Pig,Cow,Sheep) ICC/IF=1:50-200,IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	57kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human QRSL
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background: QRSL belongs to the amidase family. Catalytic activity: ATP + L-glutamyl-tRNA(Gln) + L-glutamine = ADP + phosphate + L-glutaminyl-tRNA(Gln) + L-glutamate. There are two named isoforms.

Function:

Allows the formation of correctly charged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) in the mitochondria. The reaction takes place in the presence of glutamine and ATP through an activated gamma-phospho-Glu-tRNA(Gln).

Subunit:

Subunit of the heterotrimeric GatCAB amidotransferase (AdT) complex, composed of A (QRSL1), B (GATB) and C (GATC) subunits.

Subcellular Location:

Mitochondrion.

Similarity:

Belongs to the amidase family. GatA subfamily.

Database links:

[Entrez Gene: 55278](#) Human

[Entrez Gene: 76563](#) Mouse

[Entrez Gene: 309911](#) Rat

[SwissProt: Q9H0R6](#) Human

[SwissProt: Q9CZN8](#) Mouse

[SwissProt: Q5FWT5](#) Rat

Important Note:

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