



Rabbit Anti-valyl tRNA antibody

SL10504R

Product Name:	valyl tRNA
Chinese Name:	缬氨酰-tRNA合成酶抗体
Alias:	SYVM_HUMAN; Valine--tRNA ligase, mitochondrial; Valyl-tRNA synthetase; ValRS; Valyl-tRNA synthetase-like; valyl tRNA; VARS2; KIAA1885; VARS2L; VARSL.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Sheep,
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:	115kDa
Cellular localization:	cytoplasmicMitochondrion
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human vars2 :1-100/1063
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:	ValRS (valyl-tRNA synthetase), also known as Protein G7a, belongs to the class-I aminoacyl-tRNA synthetase family that includes the related proteins, LeuRS and IleRS. These proteins are large monomeric proteins and play a major role in catalyzing the aminoacylation of tRNA by their cognate amino acid. ValRS joins Val to tRNA(Val) at its synthetic active site. At its CP1 editing active site, ValRS hydrolyzes or deacylates

tRNA(Thr) that is incorrectly joined to Val. ValRS forms aggregates with EF-1 (elongation factor 1) and, via this complex, catalyzes the aminoacylation of tRNA and its transfer to EF-1. In addition, ValRS may be regulated by PKC-dependent phosphorylation.

Subcellular Location:

Mitochondrion (Potential).

Similarity:

Belongs to the class-I aminoacyl-tRNA synthetase family.

SWISS:

P26640

Gene ID:

7407

Database links:

[Entrez Gene: 7407](#) Human

[Entrez Gene: 25009](#) Rat

[Omim: 192150](#) Human

[SwissProt: P26640](#) Human

[SwissProt: Q04462](#) Rat

[Unigene: 520026](#) Human

[Unigene: 12314](#) Rat

Important Note:

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