

Product datasheet for **TA322250S**

Alanyl tRNA synthetase 2 (AARS2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1000-5000 WB positive control: SP20 cells IHC: 100-300 Positive control: Human thyroid cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 686-985 amino acids of human alanyl-tRNA synthetase 2, mitochondrial
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	107 kDa
Gene Name:	alanyl-tRNA synthetase 2, mitochondrial
Database Link:	NP_065796 Entrez Gene 224805 MouseEntrez Gene 301254 RatEntrez Gene 57505 Human Q5J TZ9



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Background:

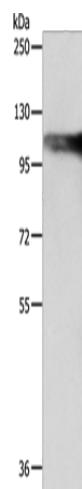
The protein encoded by this gene belongs to the class-II aminoacyl-tRNA synthetase family. Aminoacyl-tRNA synthetases play critical roles in mRNA translation by charging tRNAs with their cognate amino acids. The encoded protein is a mitochondrial enzyme that specifically aminoacylates alanyl-tRNA. Mutations in this gene are a cause of combined oxidative phosphorylation deficiency 8. Catalyzes the attachment of alanine to tRNA(Ala) in a two-step reaction: alanine is first activated by ATP to form Ala-AMP and then transferred to the acceptor end of tRNA(Ala). Also edits incorrectly charged tRNA(Ala) via its editing domain

Synonyms:

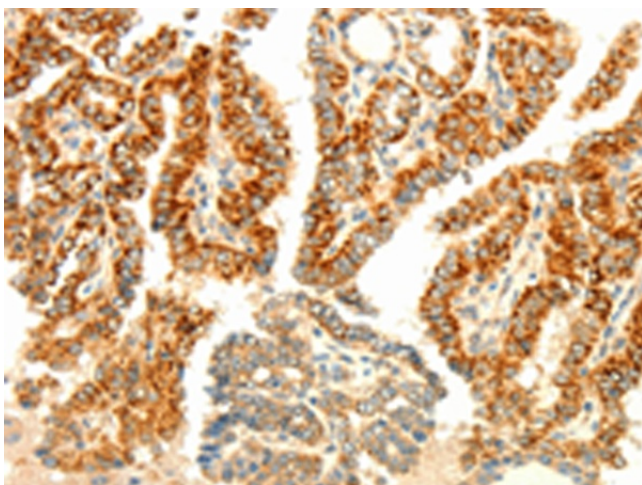
AARSL; COXPD8; LKENP; MT-ALARS; MTALARS

Protein Pathways:

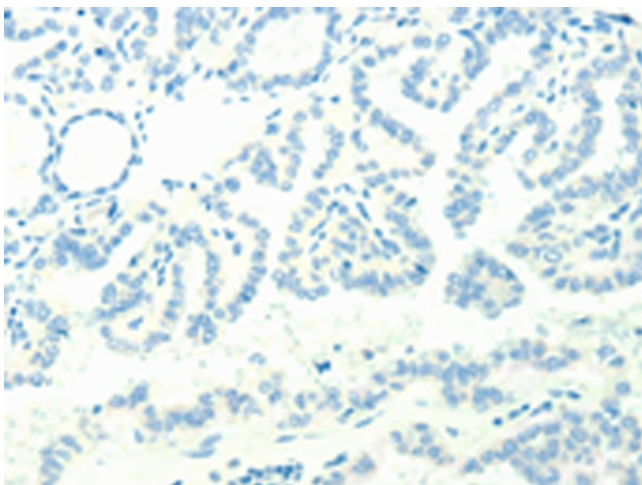
Aminoacyl-tRNA biosynthesis

Product images:

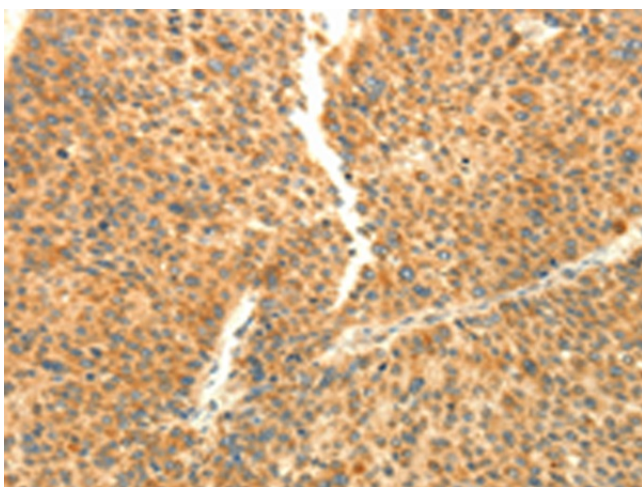
Gel: 8%SDS-PAGE
Lysate: 40 µg
Lane: SP20 cells
Primary antibody: [TA322250] (AARS2 Antibody) at dilution 1/1200
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 15 seconds



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA322250] (AARS2 Antibody) at dilution 1/80 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA322250] (AARS2 Antibody) at dilution 1/80, treated with fusion protein. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA322250] (AARS2 Antibody) at dilution 1/80 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA322250] (AARS2 Antibody) at dilution 1/80, treated with fusion protein. (Original magnification: $\times 200$)