SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-AARS2 antibody

Catalog Number: SL1603R

FOR RESEARCH USE ONLY

[DATASHEET]

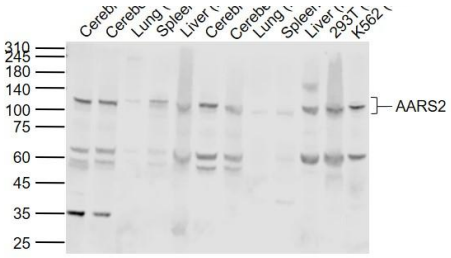
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	AARS2
Immunogen:	KLH conjugated synthetic peptide derived from human AARS2: 451-550/985
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Dog)
Predicted MW.:	115kDa
Subcellular Location:	cytoplasmic Mitochondrion
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. [provided by RefSeq, Dec 2011]. **Function:** The human alanyl-tRNA synthetase (AlaRS) belongs to a family of tRNA synthases, of the class II enzymes. Class II tRNA synthases evolved early in evolution and are highly conserved. This is reflected by the fact that 498 of the 968-residue polypeptide human AlaRS shares 41% identity witht the E.coli protein. tRNA synthases are the enzymes that interpret the RNA code and attach specific aminoacids to the tRNAs that contain the cognate trinucleotide anticodons. They consist of a catalytic domain which interacts with the amino acid acceptor-T psi C helix of the tRNA, and a second domain which interacts with the rest of the tRNA structure. Alanyl-tRNA synthetase

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	(AlaRS) catalyzes the ligation of alanine with alanyl-tRNA using ATP. **Subcellular Location:** Mitochondrion matrix. **Database links:** **Entrez Gene:** 57505 Human Omim: 612035 Human **SwissProt:** Q5JTZ9 Human

[VALIDATION IMAGES]



Sample:
Lane 1: Cerebrum (Mouse) Lysate at 40 ug
Lane 2: Cerebellum (Mouse) Lysate at 40 ug
Lane 3: Lung (Mouse) Lysate at 40 ug
Lane 4: Spleen (Mouse) Lysate at 40 ug
Lane 5: Liver (Mouse) Lysate at 40 ug
Lane 6: Cerebrum (Rat) Lysate at 40 ug
Lane 7: Cerebellum (Rat) Lysate at 40 ug
Lane 8: Lung (Rat) Lysate at 40 ug
Lane 9: Spleen (Rat) Lysate at 40 ug
Lane 10: Liver (Rat) Lysate at 40 ug
Lane 11: 293T (Human) Cell Lysate at 30 ug
Lane 12: K562 (Human) Cell Lysate at 30 ug
Primary: Anti-AARS2 (SL1603R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 107 kD
Observed band size: 110 kD

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