SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-DARS2 antibody

Catalog Number: SL14198R

FOR RESEARCH USE ONLY

[DATASHEET]

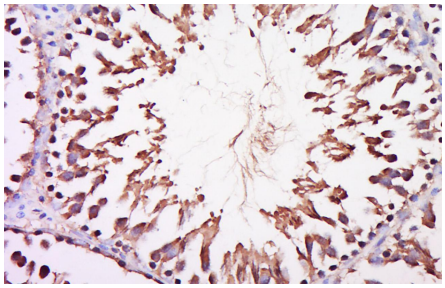
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	DARS2
Immunogen:	KLH conjugated synthetic peptide derived from human DARS2: 551-645/645
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Cow)
Predicted MW.:	68kDa
Subcellular Location:	cytoplasmic Mitochondrion
Background:	The protein encoded by this gene belongs to the class-II aminoacyl-tRNA synthetase family. It is a mitochondrial enzyme that specifically aminoacylates aspartyl-tRNA. Mutations in this gene are associated with leukoencephalopathy with brainstem and spinal cord involvement and lactate elevation (LBSL). [provided by RefSeq, Nov 2009] **Function:** Aspartyl-tRNA synthetase (DARS) charges its cognate tRNA with aspartate during protein biosynthesis. Mammalian synthetases differ from those of prokaryotes and lower eukaryotes in that they associate as multienzyme complexes. Defects in DARS2 are a cause of leukoencephalopathy with brainstem and spinal cord involvement and lactate elevation. **Subcellular Location:** Mitochondrion matrix. **Similarity:** Belongs to the class-II aminoacyl-tRNA synthetase family.

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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	Database links: **Entrez Gene:** 55157 Human **Entrez Gene:** 538772 Cow **Entrez Gene:** 226539 Mouse **Entrez Gene:** 304919 Rat GenBank: NM_018122.3 Human Omim: 610956 Human **SwissProt:** A6QPU5 Cow **SwissProt:** Q6PI48 Human **SwissProt:** Q8BIP0 Mouse **SwissProt:** Q3KRD0 Rat

[VALIDATION IMAGES]



Tissue/cell: Rat testis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37∩ for 20 min;
Incubation: Anti-DARS2 Polyclonal Antibody, Unconjugated(SL14198R) 1:500, overnight at 4∑C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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