SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CRLS1 antibody

Catalog Number: SL14063R

FOR RESEARCH USE ONLY

[DATASHEET]

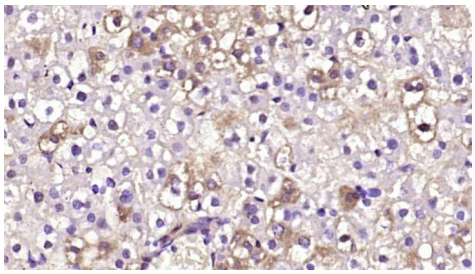
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CRLS1
Immunogen:	KLH conjugated synthetic peptide derived from human CRLS1: 201-301/301
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. 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,Chicken,Dog,Pig,Cow,Horse)
Predicted MW.:	33kDa
Subcellular Location:	cytoplasmic
Background:	Cardiolipin synthetase is a mitochondrial protein that belongs to the CDP-alcohol phosphatidyltransferase class-I family. CLS1 is a multi-pass membrane protein localized to the inner membrane of mitochondria. CLS1 is responsible for the catalyzing the reversible transfer of a phosphatidyl group from one phosphatidyl glycerol molecule to another. This process results in the formation of cardiolipin (CL, or diphosphatidyl glycerol) and glycerol. Diphosphatidyl glycerol is a major component of the mitochondrial membrane and constitutes roughly 20% of total mitochondrial lipids. Having four fatty acid tails rather than the usual two, CL is a double phospholipid that is synthesized in the mitochondrion itself. Defects in the CRLS1 gene are likely to effect metabolism, sustained production of ATP and could contribute to diseases such as Barth syndrome. **Function:** Catalyzes the reversible phosphatidyl group transfer from one

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	phosphatidylglycerol molecule to another to form cardiolipin (CL) (diphosphatidylglycerol) and glycerol. **Subcellular Location:** Mitochondrion inner membrane. **Tissue Specificity:** Highly expressed in tissues such as heart, skeletal muscle and liver. **Similarity:** Belongs to the CDP-alcohol phosphatidyltransferase class-I family. **Database links:** **Entrez Gene:** 54675 Human Omim: 608188 Human **SwissProt:** Q9UJA2 Human **Unigene:** 224764 Human

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CRLS1) Polyclonal Antibody, Unconjugated (SL14063R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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