

ACSL1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58260

Product Information

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Primary Accession	<u>P33121</u>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77943
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ACSL1
Epitope Specificity	501-600/698
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion outer membrane; Single-pass type III membrane protein.
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Additional Information

Gene ID	2180
Other Names	Long-chain-fatty-acidCoA ligase 1, 6.2.1.3, Acyl-CoA synthetase 1, ACS1, ArachidonateCoA ligase, 6.2.1.15, ACSL1 (<u>HGNC:3569</u>)
Target/Specificity	Highly expressed in liver, heart, skeletal muscle, kidney and erythroid cells, and to a lesser extent in brain, lung, placenta and pancreas.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000 -10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	ACSL1 (<u>HGNC:3569</u>)
Function	Catalyzes the conversion of long-chain fatty acids to their active form acyl-CoAs for both synthesis of cellular lipids, and degradation via beta-oxidation (PubMed: <u>21242590</u> , PubMed: <u>22633490</u> , PubMed: <u>24269233</u>). Preferentially uses palmitoleate, oleate and linoleate (PubMed: <u>24269233</u>). Preferentially activates arachidonate than epoxyeicosatrienoic acids (EETs) or hydroxyeicosatrienoic acids (HETEs) (By similarity).
Cellular Location	Mitochondrion outer membrane; Single-pass type III membrane protein. Peroxisome membrane; Single-pass type III membrane protein. Microsome membrane; Single-pass type III membrane protein. Endoplasmic reticulum membrane; Single-pass type III membrane protein
Tissue Location	Highly expressed in liver, heart, skeletal muscle, kidney and erythroid cells, and to a lesser extent in brain, lung, placenta and pancreas.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.