

Rabbit anti-Human ACSL1 Polyclonal Antibody | anti-ACSL1 antibody

Anti-ACSL1 Antibody, Rabbit Polyclonal

CATALOG # AAA254966	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

ACSL1; Polyclonal Antibody; Anti-ACSL1 Antibody; Rabbit Polyclonal; ACSL1 Antibody; Rabbit PAb; Antigen Affinity Purified; acyl-CoA synthetase long-chain family member 1; Anti-ACS1 Antibody; Anti-FACL1 Antibody; Anti-FACL2 Antibody; Anti-LACS Antibody; Anti-LACS1 Antibody; Anti-LACS2 Antibody; anti-ACSL1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human ACSL1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-ACSL1 antibody	IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the center region of the Human ACSL1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human ACSL1, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human ACSL1 in human hepatoma with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human ACSL1 in human kidney with rabbit polyclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-ACSL1 antibody	Long-chain acyl-CoA synthetases (ACSLs), which are responsible for activation of the most abundant long-chain fatty acids, are commonly deregulated in cancer. This deregulation is also associated with poor survival in patients with cancer. Fatty acids physiologically regulate ACSL expression, but cancer cells could hijack certain involved regulatory mechanisms to deregulate ACSLs. Among the five family isoforms, ACSL1 and ACSL4 are able to promote ungoverned cell growth, facilitate tumor invasion and evade programmed cell death. Acyl-CoA synthetase long-chain family member 1 (ACSL1), which are involved in altered lipid metabolism, lipolysis, and de novo FA synthesis in highly aggressive prostate and breast cancer cells.Global cardiac transcriptional analysis revealed differential expression of genes involved in cardiac metabolism, fibrosis, and hypertrophy development in Acs1H-/- hearts 2 weeks after Acs11 ablation.Short-term cardiac-specific ACSL1 inactivation resulted in metabolic and transcriptional derangements distinct from those observed upon complete ACSL1 knockout, suggesting heart-specific mTOR (mechanistic target of rapamycin) signaling that occurs during the early stages of substrate switching. The hypertrophy observed with partial Acs11 ablation occurs in the context of normal cardiac function and is reminiscent of a physiological process, making this a useful model to study the transition from physiological to pathological hypertrophy.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	417241
NCBI GeneID	2180
UniProt Accession #	P33121; P41215; Q8N8V7; Q8TA99; B7Z452; D3DP57
Molecular Weight	698
NCBI Official Full Name	Long-chain-fatty-acid--CoA ligase 1
NCBI Official Synonym Full Names	acyl-CoA synthetase long-chain family member 1
NCBI Official Symbol	ACSL1
NCBI Official Synonym Symbols	ACS1; LACS; FACL1; FACL2; LACS1; LACS2
NCBI Protein Information	long-chain-fatty-acid--CoA ligase 1; LACS 1; LACS 2; acyl-CoA synthetase 1; palmitoyl-CoA ligase 1; palmitoyl-CoA ligase 2; paltimoyl-CoA ligase 1; lignoceroyl-CoA synthase; long-chain acyl-CoA synthetase 1; long-chain acyl-CoA synthetase 2; long-chain fa
UniProt Protein Name	Long-chain-fatty-acid--CoA ligase 1
UniProt Gene Name	ACSL1
UniProt Synonym Gene Names	FACL1; FACL2; LACS; LACS1; LACS2; ACS1; LACS 1; LACS 2
UniProt Entry Name	ACSL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.