

Rabbit ACSL1 Polyclonal Antibody | anti-ACSL1 antibody

Anti-ACSL1 Antibody

CATALOG # AAA46814	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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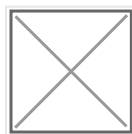
PRODUCT SYNONYMS

ACSL1; Polyclonal Antibody; Anti-ACSL1 Antibody; ACS 1; ACS1; ACSL 1; FACL 1; FACL1; FACL 2; FACL2; LACS 1; LACS1; LACS 2; LACS2; P33121; Long-chain-fatty-acid--CoA ligase 1; acyl-CoA synthetase long-chain family member 1; anti-ACSL1 antibody

PRODUCT SPECIFICATIONS

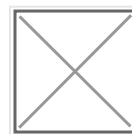
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	698
Applicable Applications for anti-ACSL1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E. coli-derived human ACSL1 recombinant protein (Position: D604-V698). Human ACSL1 shares 81.1% and 86.3% amino acid (aa) sequence identity with mouse and rat ACSL1, respectively.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

ACSL1 was detected in paraffin-embedded sections of human liver cancer tissues using rabbit anti- ACSL1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemistry)

ACSL1 was detected in paraffin-embedded sections of rat kidney tissues using rabbit anti- ACSL1 Antigen Affinity purified polyclonal antibody at 1 ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemistry)

ACSL1 was detected in paraffin-embedded sections of mouse kidney tissues using rabbit anti-ACSL1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)

Western blot analysis of ACSL1 expression in rat liver extract (lane 1) HEPA whole cell lysates (lane 2) and A549 whole cell lysates (lane 3). ACSL1 at 78KD was detected using rabbit anti-ACSL1 Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-ACSL1 antibody	Rabbit IgG polyclonal antibody for Long-chain-fatty-acid--CoA ligase 1(ACSL1) detection. Background: Long-chain-fatty-acid--CoA ligase 1 is an enzyme that in humans is encoded by the ACSL1 gene. The protein encoded by this gene is an isozyme of the long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. Several transcript variants encoding different isoforms have been found for this gene. This specific protein is most commonly found in mitochondria and peroxisomes.
References	1. Meloni I, Muscettola M, Raynaud M, Longo I, Bruttini M, Moizard MP, Gomot M, Chelly J, des Portes V, Fryns JP, Ropers HH, Magi B, Bellan C, Volpi N, Yntema HG, Lewis SE, Schaffer JE, Renieri A (Apr 2002). "FACL4, encoding fatty acid-CoA ligase 4, is mutated in nonspecific X-linked mental retardation". <i>Nature Genetics</i> 30 (4): 436-40. 2. Longo I, Frints SG, Fryns JP, Meloni I, Pescucci C, Ariani F, Borghgraef M, Raynaud M, Marynen P, Schwartz C, Renieri A, Froyen G (Jan 2003). "A third MRX family (MRX68) is the result of mutation in the long chain fatty acid-CoA ligase 4 (FACL4) gene: proposal of a rapid enzymatic assay for screening mentally retarded patients". <i>Journal of Medical Genetics</i> 40 (1): 11-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	557878736
NCBI GeneID	2180
NCBI Accession #	NP_001273637.1
NCBI GenBank Nucleotide #	NM_001286708.1
UniProt Accession #	P33121; P41215; Q8N8V7; Q8TA99; B7Z452; D3DP57
Molecular Weight	77,907 Da
NCBI Official Full Name	long-chain-fatty-acid--CoA ligase 1 isoform a
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
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

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.