

## Rabbit ACSL1 Polyclonal Antibody | anti-ACSL1 antibody

ACSL1 Antibody

|                               |                       |                                        |                                            |
|-------------------------------|-----------------------|----------------------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA328023</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|--------------------------------------------|

### PRODUCT SYNONYMS

ACSL1; Polyclonal Antibody; ACSL1 Antibody; ACS 1; ACS1; ACSL 1; ACSL1\_HUMAN; Acyl CoA synthetase 1; Acyl CoA synthetase long chain family member 1; Acyl-CoA synthetase 1; FACL 1; FACL 2; FACL1; FACL2; Fatty acid Coenzyme A ligase long chain 1; Fatty acid Coenzyme A ligase long chain 2; LACS 1; LACS 2; LACS; LACS1; LACS2; Lignoceroyl CoA synthase; Long chain acyl CoA synthetase 1; Long chain acyl CoA synthetase 2; Long chain fatty acid CoA ligase 1; Long chain fatty acid CoA ligase 2; Long chain fatty acid coenzyme A ligase 1; Long-chain acyl-CoA synthetase 1; Long-chain acyl-CoA synthetase 2; Long-chain fatty acid-CoA ligase 2; Long-chain-fatty-acid--CoA ligase 1; Palmitoyl CoA ligase 1; Palmitoyl CoA ligase 2; Palmitoyl-CoA ligase 1; Palmitoyl-CoA ligase 2; Paltimoyl CoA ligase 1; anti-ACSL1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                              |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                       |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                            |
| Clonality                                       | Polyclonal                                                                                                                                   |
| Isotype                                         | IgG                                                                                                                                          |
| Specificity                                     | ACSL1 antibody detects endogenous levels of total ACSL1                                                                                      |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                       |
| Sequence Length                                 | 698                                                                                                                                          |
| Applicable Applications for anti-ACSL1 antibody | ELISA, WB (Western Blot)                                                                                                                     |
| Immunogen                                       | A synthesized peptide derived from human ACSL1                                                                                               |
| Subcellular Location                            | Mitochondrion Outer Membrane. Peroxisome Membrane. Microsome Membrane. Endoplasmic Reticulum Membrane.                                       |
| Tissue Specificity                              | Highly expressed in liver, heart, skeletal muscle, kidney and erythroid cells, and to a lesser extent in brain, lung, placenta and pancreas. |
| Predicted Cross Reactivity                      | <b>Bovine, Horse, Sheep, Dog, Chicken, Xenopus</b>                                                                                           |
| Similarity                                      | Bovine (91%), Horse (100%), Sheep (100%), Dog (92%), Chicken (100%), Xenopus (100%)                                                          |
| Conjugation                                     | Unconjugated                                                                                                                                 |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                            |

IMAGES



**WB (Western Blot)**  
Western blot analysis of ACSL1 using MCF7 whole cell lysates



**WB (Western Blot)**  
Western blot analysis of extracts from mouse muscle, using ACSL1 Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                          |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ACSL1 antibody | Function: Activation of long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. Preferentially uses palmitoleate, oleate and linoleate.<br>Similarity: Belongs to the ATP-dependent AMP-binding enzyme family. |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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                 | Observed: 78 kDa<br>Predicted: 78 kDa                  |
| 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.