

## Rabbit anti-Human, Mouse ACSL4/FACL4 Polyclonal Antibody | anti-ACSL4 antibody

ACSL4/FACL4 Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                       |
|-----------|--------|--------------|------------------------------------|
| AAA322966 | Rabbit | Human, Mouse | Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

ACSL4/FACL4; Polyclonal Antibody; ACSL4/FACL4 Antibody; ACS 4; ACS4; ACSL 4; Acsl4; ACSL4\_HUMAN; acyl CoA synthetase 4; Acyl CoA synthetase long chain family member 4; FACL 4; FACL4; Fatty acid Coenzyme A ligase; fatty acid Coenzyme A ligase long-chain 4; LACS 4; LACS4; Lignoceroyl CoA synthase; Long chain 4; long chain acyl CoA synthetase 4; long chain fatty acid CoA ligase 4; long chain fatty acid Coenzyme A ligase 4; Long-chain acyl-CoA synthetase 4; Long-chain-fatty-acid--CoA ligase 4; MRX63; MRX68; anti-ACSL4 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                 |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                          |
| Reactivity                                      | Human, Mouse                                                                                                    |
| Clonality                                       | Polyclonal                                                                                                      |
| Isotype                                         | IgG                                                                                                             |
| Specificity                                     | ACSL4/FACL4 antibody detects endogenous levels of ACSL4/FACL4.                                                  |
| 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                                 | 711                                                                                                             |
| Applicable Applications for anti-ACSL4 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                   |
| Immunogen                                       | A synthesized peptide derived from human ACSL4/FACL4.                                                           |
| Subcellular Location                            | Mitochondrion Outer Membrane. Peroxisome Membrane. Microsome Membrane. Endoplasmic Reticulum Membrane.          |
| Predicted Cross Reactivity                      | <b>Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus</b>                                                 |
| Similarity                                      | Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (83%) |
| 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 extracts of HEK-293 cells, using ACSL4/FACL4 antibody.



**IHC (Immunohistochemistry)**  
AAA322966 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ACSL4 antibody | Function: Activation of long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. Preferentially uses arachidonate and eicosapentaenoate as substrates.<br>Similarity: Belongs to the ATP-dependent AMP-binding enzyme family. |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 972781703                                      |
| NCBI GeneID                      | 2182                                           |
| NCBI Accession #                 | NP_001305438.1                                 |
| NCBI GenBank Nucleotide #        | NM_001318509.1                                 |
| UniProt Accession #              | O60488; O60848; O60849; Q5JWV8; D3DUY2         |
| Molecular Weight                 | Observed: 79 kDa; 74 kDa<br>Predicted: 80 kDa  |
| NCBI Official Full Name          | long-chain-fatty-acid--CoA ligase 4 isoform 2  |
| NCBI Official Synonym Full Names | acyl-CoA synthetase long chain family member 4 |
| NCBI Official Symbol             | ACSL4                                          |
| NCBI Official Synonym Symbols    | ACS4; FACL4; LACS4; MRX63; MRX68               |
| NCBI Protein Information         | long-chain-fatty-acid--CoA ligase 4            |
| UniProt Protein Name             | Long-chain-fatty-acid--CoA ligase 4            |
| UniProt Gene Name                | ACSL4                                          |
| UniProt Synonym Gene Names       | ACS4; FACL4; LACS4; LACS 4                     |

**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.

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