

#4047 Store at -20°C

## ACSL1 Antibody



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**For Research Use Only. Not for Use in Diagnostic Procedures.**

| Applications:                    | Reactivity:   | Sensitivity: | MW (kDa): | Source: | UniProt ID: | Entrez-Gene Id: |
|----------------------------------|---|--------------|-----------|---------|-------------|-----------------|
| WB, IHC-P                        | H M R   | Endogenous   | 78        | Rabbit  | #P33121     | 2180            |
| <b>Product Usage Information</b> | <b>Application</b>  |              |           |         |             | <b>Dilution</b> |
|                                  | Western Blotting  |              |           |         |             | 1:1000          |
|                                  | Immunohistochemistry (Paraffin)   |              |           |         |             | 1:50            |
| <b>Storage</b>                   | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.  |              |           |         |             |                 |
| <b>Specificity / Sensitivity</b> | ACSL1 Antibody detects endogenous levels of total ACSL1 protein.  |              |           |         |             |                 |
| <b>Source / Purification</b>     | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a sequence of human ACSL1. Antibodies are purified by peptide affinity chromatography.   |              |           |         |             |                 |
| <b>Background</b>                | Mammalian long-chain acyl-CoA synthetase (ACSL) catalyzes the ligation of the fatty acid to CoA to form fatty acyl-CoA in a two-step reaction (1). Five isoforms of ACSL have been identified (1). These isoforms have different substrate preferences and subcellular localizations (1). Overexpression of ACSL1 results in changes to fatty acid metabolism in rat primary hepatocytes (2). |              |           |         |             |                 |
| <b>Background References</b>     | 1. Mashek, D.G. et al. (2004) <i>J Lipid Res</i> 45, 1958-61.<br>2. Li, L.O. et al. (2006) <i>J Biol Chem</i> 281, 37246-55.<br>3. Li, L.O. et al. (2009) <i>J Biol Chem</i> , .  |              |           |         |             |                 |

|                               |   |
|-------------------------------|---|
| <b>Species Reactivity</b>     | Species reactivity is determined by testing in at least one approved application (e.g., western blot).  |
| <b>Western Blot Buffer</b>    | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.  |
| <b>Applications Key</b>       | <b>WB:</b> Western Blotting <b>IHC-P:</b> Immunohistochemistry (Paraffin)   |
| <b>Cross-Reactivity Key</b>   | <b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected  |
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