Revision 1

#4047 Store at -20C

ACSL1 Antibody

Cell Signaling TECHNOLOGY®

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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

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunohistochemistry (Paraffin)	1:50

Storage

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.

Specificity / Sensitivity

ACSL1 Antibody detects endogenous levels of total ACSL1 protein.

Source / Purification

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.

Background

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).

Background References

1. Mashek, D.G. et al. (2004) *J Lipid Res* 45, 1958-61.
2. Li, L.O. et al. (2006) *J Biol Chem* 281, 37246-55.
3. Li, L.O. et al. (2009) *J Biol Chem* , .

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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.

Applications Key

WB: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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