

KD-Validated Anti-ACSL4 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1150**Specification****KD-Validated Anti-ACSL4 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	O60488
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 79 kDa, observed, 73 kDa kDa
Gene Name	ACSL4
Aliases	ACSL4; Acyl-CoA Synthetase Long Chain Family Member 4; LACS4; ACS4; FACL4; Fatty-Acid-Coenzyme A Ligase, Long-Chain 4; Long-Chain Fatty-Acid-Coenzyme A Ligase 4; Long-Chain-Fatty-Acid--CoA Ligase 4; Long-Chain Acyl-CoA Synthetase 4; Lignoceroyl-CoA Synthase; Arachidonate--CoA Ligase; EC 6.2.1.3; MRX63; MRX68; Mental Retardation, X-Linked 63; Mental Retardation, X-Linked 68; Acyl-CoA Synthetase 4; EC 6.2.1.15; XLID63; LACS 4
Immunogen	A synthesized peptide derived from ACSL4

KD-Validated Anti-ACSL4 Rabbit Monoclonal Antibody - Additional Information

Gene ID	2182
Other Names	
Long-chain-fatty-acid--CoA ligase 4, 6.2.1.3, Arachidonate--CoA ligase, 6.2.1.15, Long-chain acyl-CoA synthetase 4, LACS 4, ACSL4, ACS4, FACL4, LACS4	

KD-Validated Anti-ACSL4 Rabbit Monoclonal Antibody - Protein Information**Name** ACSL4**Synonyms** ACS4, FACL4, LACS4**Function**

Catalyzes the conversion of long-chain fatty acids to their active form acyl-CoA for both synthesis of cellular lipids, and degradation via beta-oxidation (PubMed: [21242590](http://www.uniprot.org/citations/21242590), PubMed: [22633490](http://www.uniprot.org/citations/22633490), PubMed: [24269233](http://www.uniprot.org/citations/24269233)). Preferentially activates arachidonate and eicosapentaenoate as substrates (PubMed: [21242590](http://www.uniprot.org/citations/21242590)). Preferentially

activates 8,9-EET > 14,15-EET > 5,6-EET > 11,12-EET. Modulates glucose- stimulated insulin secretion by regulating the levels of unesterified EETs (By similarity). Modulates prostaglandin E2 secretion (PubMed:21242590).

Cellular Location

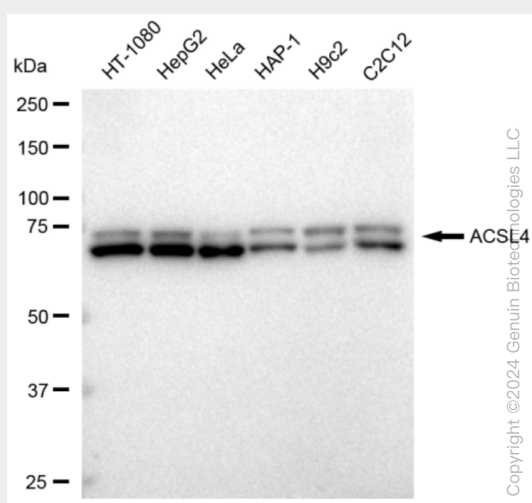
Mitochondrion outer membrane; Single-pass type III membrane protein. Peroxisome membrane; Single-pass type III membrane protein. Microsome membrane; Single-pass type III membrane protein. Endoplasmic reticulum membrane; Single-pass type III membrane protein. Cell membrane

KD-Validated Anti-ACSL4 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-ACSL4 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-ACSL4 antibody (Cat#AGI1150). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ACSL4 antibody (Cat#AGI1150, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

