

## Product datasheet for **TA331165**

### ACSL1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	IHC, WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-ACSL1 antibody: synthetic peptide directed towards the N terminal of human ACSL1. Synthetic peptide located within the following region: ALLDSDEPLVYFYDDVTTLTYEGFQRGIQVSNNGPCLGSRKPDQPYEWLSY
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	78 kDa
Gene Name:	acyl-CoA synthetase long-chain family member 1
Database Link:	<a href="#">NP_001986</a> <a href="#">Entrez Gene 2180 Human</a> <a href="#">P33121</a>



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**Background:**

ACSL1 encodes an isozyme of the long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. The protein encoded by this gene is an isozyme of the long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

**Synonyms:**

ACS1; FACL1; FACL2; LACS; LACS1; LACS2

**Note:**

Human: 100%; Rabbit: 100%; Dog: 92%; Pig: 92%; Rat: 85%; Mouse: 85%; Bovine: 85%; Guinea pig: 85%; Horse: 79%; Zebrafish: 77%

**Protein Families:**

Transmembrane

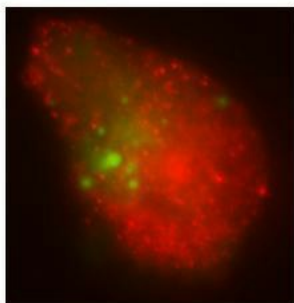
**Protein Pathways:**

Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway

**Product images:**

WB Suggested Anti-ACSL1 Antibody Titration: 0.2-1 ug/ml; Positive Control: MCF7 cell lysate

**ACSL1**

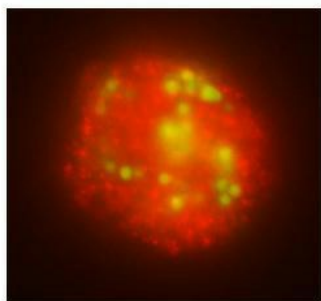


**Green: ACSL1 Red: Biodipy**

Researcher: Received from anonymous;  
 Application: IHC; Species+tissue/cell type:THP-1  
 derived macrophage; Primary antibody dilution:  
 1:200; Secondary antibody: Goat anti-rabbit Alexa  
 Fluor 647; Secondary antibody dilution:1:333

See IHC 1 Data and customer Feedback for more Information

**ACSL1**



**Green: ACSL1 Red: Biodipy**

Researcher: Received from anonymous;  
 Application: IHC; Species+tissue/cell type:THP-1  
 derived macrophage activated with iMtb; Primary  
 antibody dilution: Primary ab dil: 1:200;  
 Secondary antibody: Goat anti-rabbit Alexa Fluor  
 647; Secondary antibody diluti

See IHC 2 Data and customer Feedback for more Information