

Rabbit ACSL5 Polyclonal Antibody | anti-ACSL5 antibody

Anti-ACSL5 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127276	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

ACSL5; Polyclonal Antibody; Anti-ACSL5 Antibody Picoband; anti-ACSL5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-ACSL5 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human ACSL5 recombinant protein (Position: Y108-D683). Human ACSL5 shares 80.7% and 80.2% amino acid (aa) sequence identity with mouse and rat ACSL5, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HeLa cells using anti-ACSL5 antibody (AAA127276). Overlay histogram showing HeLa cells stained with AAA127276 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-ACSL5 Antibody (AAA127276, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of Caco-2 cells using anti-ACSL5 antibody (AAA127276). Overlay histogram showing Caco-2 cells stained with AAA127276 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-ACSL5 Antibody (AAA127276, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of ACSL5 using anti-ACSL5 antibody (AAA127276). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human RT4 whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: rat liver tissue lysates, Lane 4: mouse liver tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ACSL5 antigen affinity purified polyclonal antibody (#AAA127276) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ACSL5 at approximately 76 kDa. The expected band size for ACSL5 is at 76 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ACSL5 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-ACSL5 antibody	Primary Antibodies
References	1. Al-Thihli, K., Afting, C., Al-Hashmi, N., Mohammed, M., Sliwinski, S., Al Shibli, N., Al-Said, K., Al-Kasbi, G., Al-Kharusi, K., Merle, U., Fullekrug, J., Al-Maawali, A. Deficiency of acyl-CoA synthetase 5 is associated with a severe and treatable failure to thrive of neonatal onset. Clin. Genet. 99: 376-383, 2021. 2. O'Brien, M. J., Beijerink, N. J., Sansom, M., Thornton, S. W., Chew, T., Wade, C. M. A large deletion on CFA28 omitting ACSL5 gene is associated with intestinal lipid malabsorption in the Australian Kelpie dog breed. Sci. Rep. 10: 18223, 2020. 3. Oikawa, E., Iijima, H., Suzuki, T., Sasano, H., Sato, H., Kamataki, A., Nagura, H., Kang, M. J., Fujino, T., Suzuki, H., Yamamoto, T. T. A novel acyl-CoA synthetase, ACS5, expressed in intestinal epithelial cells and proliferating preadipocytes. J. Biochem. 124: 679-685, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13431659
NCBI GeneID	51703
UniProt Accession #	Q9ULC5; Q6UX44; Q9UIU4; A6GV77; D3DRB3
Molecular Weight	683
NCBI Official Full Name	Long-chain-fatty-acid--CoA ligase 5
NCBI Official Synonym Full Names	acyl-CoA synthetase long-chain family member 5
NCBI Official Symbol	ACSL5
NCBI Official Synonym Symbols	ACS2; ACS5; FACL5
NCBI Protein Information	long-chain-fatty-acid--CoA ligase 5; LACS 5; fatty acid coenzyme A ligase 5; long-chain acyl-CoA synthetase 5; FACL5 for fatty acid coenzyme A ligase 5; long-chain fatty acid coenzyme A ligase 5; fatty-acid-Coenzyme A ligase, long-chain 5
UniProt Protein Name	Long-chain-fatty-acid--CoA ligase 5
UniProt Gene Name	ACSL5
UniProt Synonym Gene Names	ACS5; FACL5; LACS 5
UniProt Entry Name	ACSL5_HUMAN

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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/acsl5-antibody-flow-cytometry-western-blot-elisa/127276>