

Basic Information

Product Name	Anti-ACSL4/FACL4 Antibody	
Gene Name	ACSL4	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, ICC/IF, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human FACL4/ACSL4 recombinant protein (Position: A36-E237).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	75 kDa	
Dilution Ratios	Western blot (WB): 1:1000-5000 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Enzyme linked immunosorbent assay (ELISA): 1:100-1000	

Storage

12 months from date of receipt, -20°C as supplied.

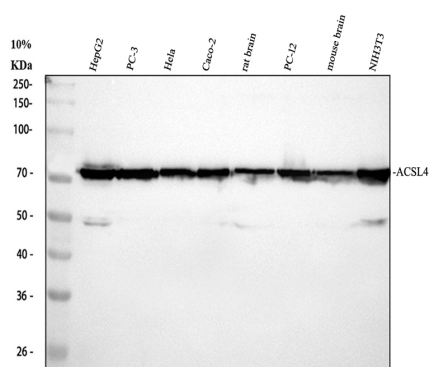
Background Information

Long-chain-fatty-acid—CoA ligase 4 is an enzyme that in humans is encoded by the ACSL4 gene. It is mapped to Xq23. 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. This isozyme preferentially utilizes arachidonate as substrate. The absence of this enzyme may contribute to the cognitive disability or Alport syndrome. Alternative splicing of this gene generates multiple transcript variants.

Reference

Anti-ACSL4/FACL4 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of ACSL4/FACL4 using anti-ACSL4/FACL4 antibody (A04372-3). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HepG2 whole cell lysates,

Lane 2: human PC-3 whole cell lysates,

Lane 3: human Hela whole cell lysates,

Lane 4: human Caco-2 whole cell lysates,

Lane 5: rat brain tissue lysates,

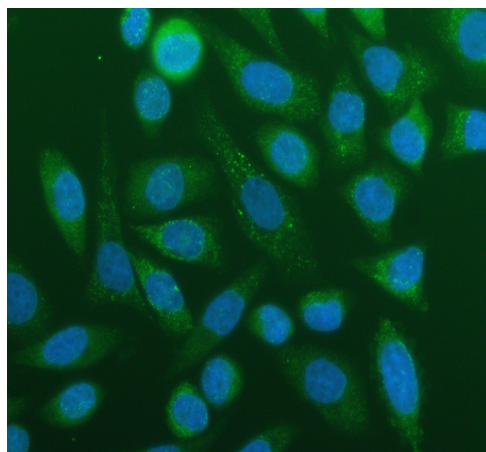
Lane 6: rat PC-12 whole cell lysates,

Lane 7: mouse brain tissue lysates,

Lane 8: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-ACSL4/FACL4 antigen affinity purified polyclonal antibody (A04372-3) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ACSL4/FACL4 at approximately 75 kDa. The expected band size for ACSL4/FACL4 is at 79, 75 kDa.



ICC/IF analysis of ACSL4/FACL4 using anti-ACSL4/FACL4 antibody (A04372-3).

ACSL4/FACL4 was detected in an immunocytochemical section of SiHa cells. The section was incubated with rabbit anti-ACSL4/FACL4 Antibody (A04372-3) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).

Product datasheet

Anti-ACSL4/FACL4 Antibody

Catalog Number: **A04372-3**



antibody and ELISA experts

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