

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,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	79 kDa
Dilution Ratios	Western blot (WB):1:500-2000 ELISA: 1:100-1000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

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3文献中。

Selected Validation Data

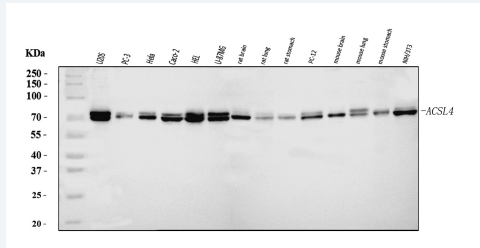


Figure 1. Western blot analysis of anti-ACSL4 Antibody (A04372-3). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: U2OS whole cell lysates,

Lane 2: PC-3 whole cell lysates,

Lane 3: HELA whole cell lysates,

Lane 4: CACO-2 whole cell lysates,

Lane 5: HEL whole cell lysates,

Lane 6: U-87MG whole cell lysates,

Lane 7: rat brain tissue lysates,

Lane 8: rat lung tissue lysates,

Lane 9: rat stomach tissue lysates,

Lane 10: PC-12 whole cell lysates,

Lane 11: mouse brain tissue lysates,

Lane 12: mouse lung tissue lysates,

Lane 13: mouse stomach tissue lysates,

Lane 14: NIH/3T3 whole cell lysates.

Use rabbit anti-ACSL4 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for ACSL4 at approximately 79KD. The expected band size for ACSL4 is at 79KD.