

Anti-FACL4/ACSL4 Antibody Picoband™

Catalog Number: A04372-3

About ACSL4

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.

Overview

Product Name	Anti-FACL4/ACSL4 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-FACL4/ACSL4 Antibody Picoband™ catalog # A04372-3. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	O60488

Technical Details

Immunogen	E.coli-derived human FACL4/ACSL4 recombinant protein (Position: A36-E237).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat

Direct ELISA, 0.1-0.5 ug/ml, Human

Anti-FACL4/ACSL4 Antibody Picoband™ (A04372-3) Images

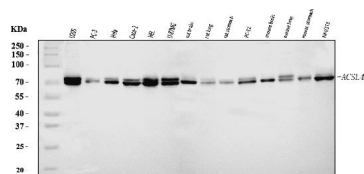


Figure 1. Western blot analysis of FACL4/ACSL4 using anti-FACL4/ACSL4 antibody (A04372-3). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human U20S 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: human HEL whole cell lysates,
Lane 6: human 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: rat 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: mouse NIH/3T3 whole cell 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-FACL4/ACSL4 antigen affinity purified polyclonal antibody (Catalog # A04372-3) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for FACL4/ACSL4 at approximately 79 kDa. The expected band size for FACL4/ACSL4 is at 79 kDa.

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