

Anti-BAL/SLC27A5 Antibody Picoband™

Catalog Number: A09287-2

About SLC27A5

Bile acyl-CoA synthetase is an enzyme that in humans is encoded by the SLC27A5 gene. The protein encoded by this gene is an isozyme of very long-chain acyl-CoA synthetase (VLCs). It is capable of activating very long-chain fatty-acids containing 24- and 26-carbons. It is expressed in liver and associated with endoplasmic reticulum but not with peroxisomes. Its primary role is in fatty acid elongation or complex lipid synthesis rather than in degradation. This gene has a mouse ortholog.

Overview

Product Name	Anti-BAL/SLC27A5 Antibody Picoband™
Reactive Species	Human, Rat
Description	Boster Bio Anti-BAL/SLC27A5 Antibody Picoband™ catalog # A09287-2. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Rat.
Application	ELISA, Flow Cytometry, 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	Q9Y2P5

Technical Details

Immunogen	E.coli-derived human BAL/SLC27A5 recombinant protein (Position: I204-L690).
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 µg/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 µg/ml, Human, Rat

Flow Cytometry, 1-3 µg/1x10⁶ cells, Human

Direct ELISA, 0.1-0.5 µg/ml, Human

Anti-BAL/SLC27A5 Antibody Picoband™ (A09287-2) Images

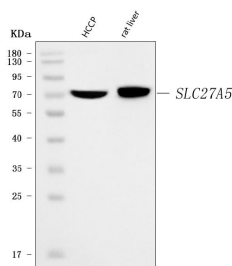


Figure 1. Western blot analysis of BAL/SLC27A5 using anti-BAL/SLC27A5 antibody (A09287-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human hepatocellular carcinoma paracancerous tissue (HCCP) lysates,
Lane 2: rat 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-BAL/SLC27A5 antigen affinity purified polyclonal antibody (Catalog # A09287-2) 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 BAL/SLC27A5 at approximately 75 kDa. The expected band size for BAL/SLC27A5 is at 75 kDa.

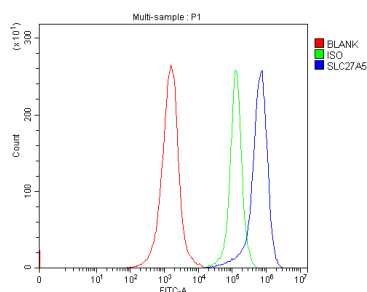


Figure 2. Flow Cytometry analysis of Jurkat cells using anti-BAL/SLC27A5 antibody (A09287-2). Overlay histogram showing Jurkat cells stained with A09287-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-BAL/SLC27A5 Antibody (A09287-2, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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