

Anti-Lipin 1/LPIN1 Antibody Picoband™

Catalog Number: A02467-2

About LPIN1

This gene encodes a magnesium-ion-dependent phosphatidic acid phosphohydrolase enzyme that catalyzes the penultimate step in triglyceride synthesis including the dephosphorylation of phosphatidic acid to yield diacylglycerol. Expression of this gene is required for adipocyte differentiation and it also functions as a nuclear transcriptional coactivator with some peroxisome proliferator-activated receptors to modulate expression of other genes involved in lipid metabolism. Mutations in this gene are associated with metabolic syndrome, type 2 diabetes, acute recurrent rhabdomyolysis, and autosomal recessive acute recurrent myoglobinuria (ARARM). This gene is also a candidate for several human lipodystrophy syndromes.

Overview

Product Name	Anti-Lipin 1/LPIN1 Antibody Picoband™
Reactive Species	Human, Rat
Description	Boster Bio Anti-Lipin 1/LPIN1 Antibody Picoband™ catalog # A02467-2. Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Rat.
Application	ELISA, Flow Cytometry, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
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	Q14693

Technical Details

Immunogen	E.coli-derived human Lipin 1/LPIN1 recombinant protein (Position: Q90-H886).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
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.



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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 - $0.5 \mu g/ml$, Human, Rat Immunocytochemistry/Immunofluorescence, $5 \mu g/ml$, Human Flow Cytometry, 1 - $3 \mu g/1x10^6$ cells, Human Direct ELISA, 0.1 - $0.5 \mu g/ml$, Human



Anti-Lipin 1/LPIN1 Antibody Picoband™ (A02467-2) Images

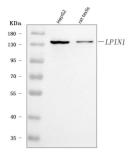


Figure 1. Western blot analysis of Lipin 1/LPIN1 using anti-Lipin 1/LPIN1 antibody (A02467-2).

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 HepG2 whole cell lysates,

Lane 2: rat testis 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-Lipin 1/LPIN1 antigen affinity purified polyclonal antibody (Catalog # A02467-2) 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 Lipin 1/LPIN1 at approximately 130 kDa. The expected band size for Lipin 1/LPIN1 is at 99 kDa.

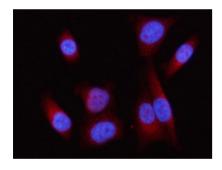


Figure 2. IF analysis of Lipin 1/LPIN1 using anti-Lipin 1/LPIN1 antibody (A02467-2).

Lipin 1/LPIN1 was detected in an immunocytochemical section of PC-3 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-Lipin 1/LPIN1 Antibody (A02467-2) overnight at 4°C. DyLight550 Conjugated Goat Anti-Rabbit IgG (BA1135) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

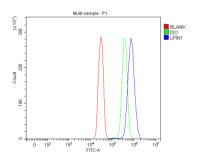


Figure 3. Flow Cytometry analysis of SiHa cells using anti-Lipin 1/LPIN1 antibody (A02467-2).

Overlay histogram showing SiHa cells stained with A02467-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Lipin 1/LPIN1 Antibody (A02467-2, 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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