

Anti-DGAT1 Antibody Picoband®

Catalog Number: PB9801

About DGAT1

Acyl-CoA: diacylglycerol acyltransferase (DGAT) is a microsomal enzyme that plays a central role in the metabolism of cellular diacylglycerol lipids and catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol (DAG) and fatty acyl CoA as substrates. DGAT had been considered necessary for adipose tissue formation and essential for survival. There are two isozymes of DGAT encoded by the genes DGAT1 and DGAT2. DGAT1 is a host factor for HCV infection that binds core protein, localizes it to DGAT1-generated lipid droplets, and recruits viral RNA replication complexes for viral assembly. DGAT2-generated lipid droplets formed normally in cells treated with the DGAT1 inhibitor, suggesting that DGAT1 inhibitors may be useful as antiviral therapeutics.

Overview

| | |
|----------------------|--|
| Product Name | Anti-DGAT1 Antibody Picoband® |
| Reactive Species | Human, Rat |
| Description | Boster Bio Anti-DGAT1 Antibody Picoband® catalog # PB9801. Tested in WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application | WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| Storage Instructions | Store 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 freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | O75907 |

Technical Details

| | |
|-------------------------------|--|
| Immunogen | A synthetic peptide corresponding to a sequence in the middle region of human DGAT1, different from the related mouse and rat sequences by one amino acid. |
| 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 | Western blot, 0.1-0.5ug/ml, Human, Rat |

Anti-DGAT1 Antibody Picoband® (PB9801) Images



Western blot analysis of DGAT1 using anti-DGAT1 antibody (PB9801). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: Rat Kidney Tissue Lysate at 50ug, Lane 2: HELA Whole Cell Lysate at 40ug. 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-DGAT1 antigen affinity purified polyclonal antibody (Catalog # PB9801) 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 DGAT1 at approximately 60 kDa. The expected band size for DGAT1 is at 60 kDa.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-DGAT1 Antibody

For Research Use Only. Not for use in diagnostic procedures.