BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-TTC39B Antibody Picoband®

**Catalog Number:** A13852-1

## About TTC39B

Tetratricopeptide repeat protein 39B is a protein that in humans is encoded by the TTC39B gene. TTC39B protein contains two TPR repeats (aa 393-426 and 626 -659). TCC39B protein is the product of a high density lipoprotein (HDL) gene that promotes the ubiquitination and degradation of liver X receptor (LXR). TTC39B null or deficient mice challenged with high fat/cholesterol/bile salt diet exhibit increased LX R protein and target gene expression. TTC39B deficiency is reported to stabilize LXR by reducing its polyubiquitination and proteasomal degradation. Hence it reduces the incidence of atherosclerosis and steatohepatitis. TTC39B deficiency mice display higher levels of HDL and Apoplipoprotein A-1 and lower levels of hepatic triglyceride synthesis.However it does not affect glucose tolerance or hepatic gluconeogenesis.

## Overview

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| Product Name | Anti-TTC39B Antibody Picoband® |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-TTC39B Antibody Picoband® catalog # A13852-1. Tested in ELISA, WB, Flow Cytometry applications. This antibody reacts with Human, Mouse, 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 | ELISA, Flow Cytometry, 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 | Q5VTQ0 |

## Technical Details

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| Immunogen | E.coli-derived human TTC39B recombinant protein (Position: K129-D682). |
| 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 |

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| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat<br>Flow Cytometry (Fixed), 1-3 ug/1x$10^6$ cells, Human<br>ELISA, 0.1-0.5 ug/ml, - |

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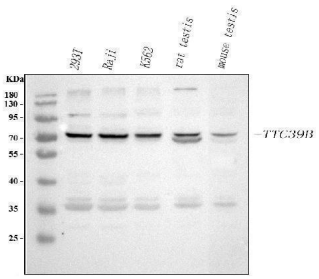
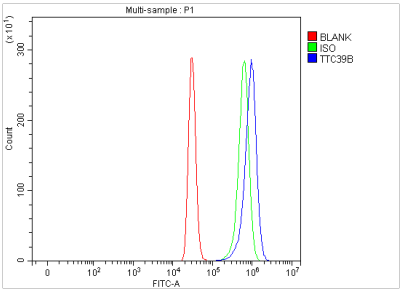
# Anti-TTC39B Antibody Picoband® (A13852-1) Images




Western blot analysis of TTC39B using anti-TTC39B antibody (A13852-1). 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 293T whole cell lysates, Lane 2: human Raji whole cell lysates, Lane 3: human K562 whole cell lysates, Lane 4: rat testis tissue lysates, Lane 5: mouse 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-TTC39B antigen affinity purified polyclonal antibody (Catalog # A13852-1) 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 TTC39B at approximately 70 kDa. The expected band size for TTC39B is at 70 kDa.




Flow Cytometry analysis of HepG2 cells using anti-TTC39B antibody (A13852-1). Overlay histogram showing HepG2 cells stained with A13852-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TTC39B Antibody (A13852-1, 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.



Anti-TTC39B Antibody

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