

Anti-ABCB4 Antibody Picoband®

Catalog Number: PA2090

About ABCB4

Adenosine triphosphate-binding cassette subfamily B, member 4 (ABCB4), also called MDR3, is a protein that in humans is encoded by the ABCB4 gene. MDR1 and MDR3 constitute the human P-glycoprotein gene family. The MDR3 gene contains 28 exons and 27 of these contain coding sequences for the two homologous halves of the protein that correlate with functional domains. MDR3 gene mutations represent a genetic factor involved in this peculiar form of cholesterol gallstone disease in adults.

Overview

Product Name	Anti-ABCB4 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-ABCB4 Antibody catalog # PA2090. Tested in WB applications. This antibody reacts with Human. 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 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
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	P21439

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ABCB4.
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

Anti-ABCB4 Antibody Picoband® (PA2090) Images

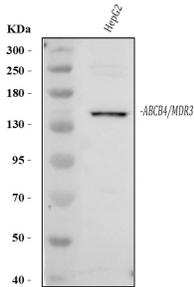


Figure 1. Western blot analysis of ABCB4 using anti-ABCB4 antibody (PA2090).

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.

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-ABCB4 antigen affinity purified polyclonal antibody (Catalog # PA2090) 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 ABCB4 at approximately 142 kDa. The expected band size for ABCB4 is at 142 kDa.

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