

Rabbit ABCB4 Polyclonal Antibody | anti-ABCB4 antibody

Anti-ABCB4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11652	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

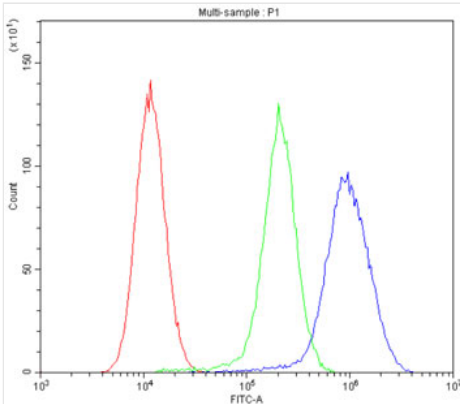
ABCB4; Polyclonal Antibody; Anti-ABCB4 Antibody; Phosphatidylcholine translocator ABCB4; Multidrug resistance protein 3; ABC 21; ABC B4; ABC21; ABCB 4; Abcb4; ABCB4 protein; ATP binding cassette sub family B MDR/TAP member 4; ATP binding cassette sub family B member 4; ATP-binding cassette sub-family B member 4; MDR 3; MDR2; MDR2/3; MDR3; MDR3 P glycoprotein; MDR3 P gp; MDR3_HUMAN; Multidrug resistance protein 3; Multiple drug resistance 3; P glycoprotein 3; P-glycoprotein 3; PFIC 3; PFIC3; PGY 3; PGY3; ATP-binding cassette; sub-family B (MDR/TAP); member 4; anti-ABCB4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Sequence Length	1279
Applicable Applications for anti-ABCB4 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	WB: Concentration: 0.1-0.5ug/ml Tested Species: Hu, Ms, Rat IHC (Paraffin-embedded Section): Concentration: 0.5-1ug/ml Tested Species: Hu Antigen Retrieval: By Heat IF/ICC: Concentration: 2 ug/ml Tested Species: Hu Flow Cytometry: 1-3ug/1x10⁶ cels Tested Species: Hu WB: The detection limit for ABCB4 is approximately 0.1ng/lane under reducing conditions. Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20 mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.

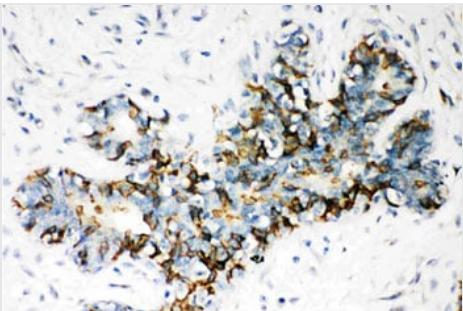
Immunogen	E Coli-derived human ABCB4 recombinant protein (Position: A601-A720). Human ABCB4 shares 79% amino acid (aa) sequence identity with both mouse and rat ABCB4.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Preparation and Storage	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquoted and stored frozen at -20°C for 6 months. Avoid repeated freezing and thawing.

IMAGES



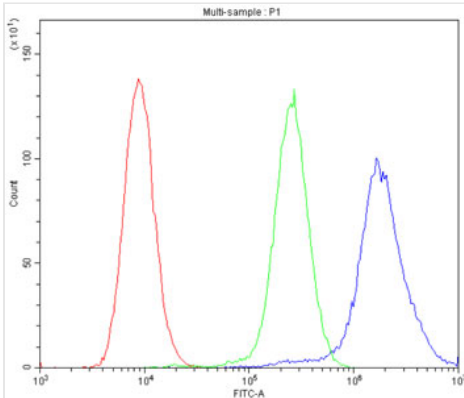
FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of A549 cells using anti-MDR3 antibody (AAA11652).Overlay histogram showing A549 cells stained with AAA11652 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MDR3 Antibody (AAA11652,1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



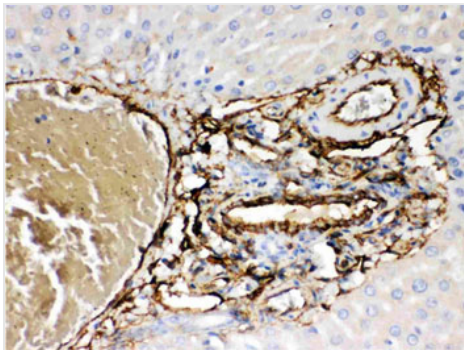
IHC (Immunohistochemistry)

Figure 4. IHC analysis of ABCB4 using anti-ABCB4 antibody (AAA11652).ABCB4 was detected in paraffin-embedded section of Human Mammary Cancer Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ABCB4 Antibody (AAA11652) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



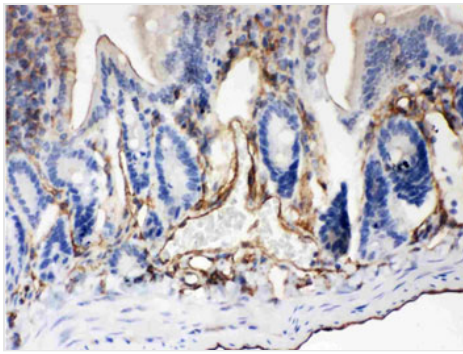
FCM (Flow Cytometry)

Figure 5. Flow Cytometry analysis of A375 cells using anti-MDR3 antibody (AAA11652).Overlay histogram showing A375 cells stained with AAA11652 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MDR3 Antibody (AAA11652,1ug/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



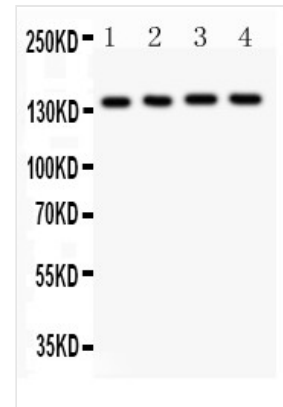
IHC (Immunohistochemistry)

Figure 3. IHC analysis of ABCB4 using anti-ABCB4 antibody (AAA11652).ABCB4 was detected in paraffin-embedded section of Rat Liver Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ABCB4 Antibody (AAA11652) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of ABCB4 using anti-ABCB4 antibody (AAA11652). ABCB4 was detected in paraffin-embedded section of Mouse Intestine Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ABCB4 Antibody (AAA11652) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of ABCB4 using anti-ABCB4 antibody (AAA11652). 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 50ug of sample under reducing conditions. Lane 1: MCF-7 Whole Cell Lysate, Lane 2: SW620 Whole Cell Lysate, Lane 3: 22RV1 Whole Cell Lysate, Lane 4: SKOV Whole Cell Lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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 at 0.5ug/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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ABCB4 at approximately 142KD. The expected band size for ABCB4 is at 142KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ABCB4 antibody	Description: Rabbit IgG polyclonal antibody for Multidrug resistance protein 3(ABCB4) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: Adenosine triphosphate-binding cassette subfamily B, member 4 (ABCB4), also called MDR3, is a protein that in humans is encoded by the ABCB4 gene. The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. The ABCB4 gene contains 28 exons and 27 of these contain coding sequences for the two homologous halves of the protein that correlate with functional domains. ABCB4 gene mutations represent a genetic factor involved in this peculiar form of cholesterol gallstone disease in adults.
References	1. Lincke, C. R., Smit, J. J., van der Velde Koerts, T., Borst, P. Structure of the human MDR3 gene and physical mapping of the human MDR locus. J. Biol. Chem. 266: 5303-5310, 1991. 2. Rosmorduc, O., Hermelin, B., Poupon, R. MDR3 gene defect in adults with symptomatic intrahepatic and gallbladder cholesterol cholelithiasis. Gastroenterology 120: 1459-1467, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505771
NCBI GeneID	5244
NCBI Accession #	NP_000434.1
NCBI GenBank Nucleotide #	NM_000443.3
UniProt Accession #	P21439; Q14813; A0A2V7; A4D1D3; A4D1D4; A4D1D5; D6W5P3; D6W5P4
NCBI Official Full Name	phosphatidylcholine translocator ABCB4 isoform A
NCBI Official Synonym Full Names	ATP binding cassette subfamily B member 4
NCBI Official Symbol	ABCB4
NCBI Official Synonym Symbols	GBD1; ICP3; MDR2; MDR3; PGY3; ABC21; MDR2/3; PFIC-3

NCBI Protein Information	phosphatidylcholine translocator ABCB4
UniProt Protein Name	Phosphatidylcholine translocator ABCB4
UniProt Gene Name	ABCB4
UniProt Entry Name	MDR3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/abcb4-antibody-western-blot-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/11652>