

ABCB11 Polyclonal Antibody | anti-ABCB11 antibody

Anti-ABCB11 Antibody

CATALOG # AAA46378	REACTIVITY Human, Mouse, Rat	APPLICATIONS Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

ABCB11; Polyclonal Antibody; Anti-ABCB11 Antibody; Bile salt export pump; ABC member 16; MDR/TAP subfamily; ABCB1; Abcb11; ABCBB_HUMAN; ATP binding cassette sub family B (MDR/TAP) member 11; ATP binding cassette sub family B member 11; ATP-binding cassette sub-family B member 11; BRIC2; Bsep; PGY4; progressive familial intrahepatic cholestasis 2; Sister of P glycoprotein; Spgp; ATP-binding cassette; sub-family B (MDR/TAP); member 11; anti-ABCB11 antibody

PRODUCT SPECIFICATIONS

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 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ .
Sequence Length	1321
Applicable Applications for anti-ABCB11 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ABCB11 (1175-1199aa KYGDNTKEIPMERVIAAAKQAQLHD), different from the related mouse and rat sequences by three amino acids.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Quality Control lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG () for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit () for IHC(P), IHC(F) and ICC.
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 a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of A431 cells using anti-ABCB11 antibody (AAA46378). Overlay histogram showing A431 cells stained with AAA46378 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ABCB11 Antibody (AAA46378, 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 degree 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.



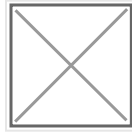
IHC (Immunohistochemistry)

Figure 4. IHC analysis of ABCB11 using anti-ABCB11 antibody (AAA46378). ABCB11 was detected in paraffin-embedded section of Human Liver 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-ABCB11 Antibody (AAA46378) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



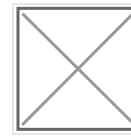
IHC (Immunohistochemisry)

Figure 3. IHC analysis of ABCB11 using anti-ABCB11 antibody (AAA46378).ABCB11 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-ABCB11 Antibody (AAA46378) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree 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 ABCB11 using anti-ABCB11 antibody (AAA46378).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: Rat Liver Tissue LysateLane 2: Mouse Liver Tissue LysateLane 3: SMMC Whole Cell LysateAfter 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-ABCB11 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree 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 ABCB11 at approximately 146KD. The expected band size for ABCB11 is at 146KD.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of ABCB11 using anti-ABCB11 antibody (AAA46378).ABCB11 was detected in paraffin-embedded section of Mouse 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-ABCB11 Antibody (AAA46378) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-ABCB11 antibody	Description: Bile Salt Export Pump (BSEP) is a protein which in humans is encoded by the ABCB 11 gene. It is a member of the superfamily of ATP-binding cassette (ABC) transporters, also known as ABCB11. It is mapped to chromosome 2q24. The BSEP protein is mainly expressed in the liver. ABCB11 is a gene associated with progressive familial intrahepatic cholestasis type 2 (PFIC2) which caused by mutations in the ABCB11 gene will increases the risk of hepatocellular carcinoma in early life.
References	1. Knisely AS, Strautnieks SS, Meier Y, Stieger B, Byrne JA, Portmann BC, Bull LN, Pawlikowska L, Bilezikçi B, Özçay F, László A, Tiszlavicz L, Moore L, Raftos J, Arnell H, Fischler B, Németh A, Papadogiannakis N, Cielecka-Kuszyk J, Jankowska I, Pawłowska J, Melín-Aldana H, Emerick KM, Whittington PF, Mieli-Vergani G, Thompson RJ (August 2006). "Hepatocellular carcinoma in ten children under five years of age with bile salt export pump deficiency". Hepatology 44 (2): 478-86. 2. Noe J, Kullak-Ublick GA, Jochum W, Stieger B, Kerb R, Haberl M, Müllhaupt B, Meier PJ, Pauli-Magnus C (September 2005). "Impaired expression and function of the bile salt export pump due to three novel ABCB11 mutations in intrahepatic cholestasis". J. Hepatol. 43 (3): 536-43. 3. Strautnieks SS, Bull LN, Knisely AS, Kocoshis SA, Dahl N, Arnell H, Sokal E, Dahan K, Childs S, Ling V, Tanner MS, Kagalwalla AF, Németh A, Pawłowska J, Baker A, Mieli-Vergani G, Freimer NB, Gardiner RM, Thompson RJ (November 1998). "A gene encoding a liver-specific ABC transporter is mutated in progressive familial intrahepatic cholestasis". Nat. Genet. 20 (3): 233-8. 4. Strautnieks, S., Kagalwalla, A. F., Tanner, M. S., Knisely, A. S., Bull, L. N., Freimer, N. B., Kocoshis, S. A., Gardiner, R. M., Thompson, R. J. Identification of a second locus for progressive familial intrahepatic cholestasis on chromosome 2q24.Medizinische Genetik9: 16-only, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21536378
NCBI GeneID	8647
NCBI Accession #	NP_003733.2
NCBI GenBank Nucleotide #	NM_003742.2
UniProt Accession #	O95342 ; Q53TL2 ; Q9UNB2

NCBI Official Full Name	bile salt export pump
NCBI Official Synonym Full Names	ATP binding cassette subfamily B member 11
NCBI Official Symbol	ABCB11
NCBI Official Synonym Symbols	BSEP; PGY4; SPGP; ABC16; BRIC2; PFIC2; PFIC-2
NCBI Protein Information	bile salt export pump
UniProt Protein Name	Bile salt export pump
UniProt Gene Name	ABCB11
UniProt Synonym Gene Names	BSEP
UniProt Entry Name	ABCB11_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/abcb11-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-immunohistochemistry-western-blot-elisa/46378>