

# Anti-ABCB11 Picoband Antibody

Catalog # ABO12104

## Product Information

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P                                                                                                             |
| <b>Primary Accession</b> | <a href="#">O95342</a>                                                                                                |
| <b>Host</b>              | Rabbit                                                                                                                |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                                     |
| <b>Clonality</b>         | Polyclonal                                                                                                            |
| <b>Format</b>            | Lyophilized                                                                                                           |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Bile salt export pump(ABCB11) detection. Tested with WB, IHC-P in Human;Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                  |

## Additional Information

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| <b>Gene ID</b>                  | 8647                                                                                                                                                                                                |
| <b>Other Names</b>              | Bile salt export pump, ATP-binding cassette sub-family B member 11, ABCB11, BSEP                                                                                                                    |
| <b>Calculated MW</b>            | 146407                                                                                                                                                                                              |
| <b>Application Details</b>      | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat                                                          |
| <b>Subcellular Localization</b> | Membrane; Multi-pass membrane protein.                                                                                                                                                              |
| <b>Tissue Specificity</b>       | Expressed predominantly, if not exclusively in the liver, where it was further localized to the canalicular microvilli and to subcanalicular vesicles of the hepatocytes by in situ.                |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                           |
| <b>Protein Name</b>             | Bile salt export pump                                                                                                                                                                               |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Na <sub>3</sub> N.                                                                                          |
| <b>Immunogen</b>                | 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. |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                        |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                                             |

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|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>               | At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing. |
| <b>Sequence Similarities</b> | Belongs to the ABC transporter superfamily. ABCB family. Multidrug resistance exporter (TC 3.A.1.201) subfamily.                                                                      |

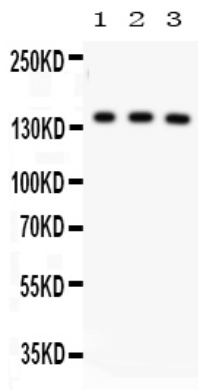
## Protein Information

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| <b>Name</b>              | ABCB11 ( <a href="#">HGNC:42</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>          | BSEP {ECO:0000303   Ref.2}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Function</b>          | Catalyzes the transport of the major hydrophobic bile salts, such as taurine and glycine-conjugated cholic acid across the canalicular membrane of hepatocytes in an ATP-dependent manner, therefore participates in hepatic bile acid homeostasis and consequently to lipid homeostasis through regulation of biliary lipid secretion in a bile salts dependent manner (PubMed: <a href="#">15791618</a> , PubMed: <a href="#">16332456</a> , PubMed: <a href="#">18985798</a> , PubMed: <a href="#">19228692</a> , PubMed: <a href="#">20010382</a> , PubMed: <a href="#">20398791</a> , PubMed: <a href="#">22262466</a> , PubMed: <a href="#">24711118</a> , PubMed: <a href="#">29507376</a> , PubMed: <a href="#">32203132</a> ). Transports taurine-conjugated bile salts more rapidly than glycine-conjugated bile salts (PubMed: <a href="#">16332456</a> ). Also transports non-bile acid compounds, such as pravastatin and fexofenadine in an ATP-dependent manner and may be involved in their biliary excretion (PubMed: <a href="#">15901796</a> , PubMed: <a href="#">18245269</a> ).                                                |
| <b>Cellular Location</b> | Apical cell membrane; Multi-pass membrane protein. Recycling endosome membrane {ECO:0000250   UniProtKB:O70127}; Multi-pass membrane protein {ECO:0000250   UniProtKB:O70127}. Endosome {ECO:0000250   UniProtKB:O70127}. Cell membrane; Multi-pass membrane protein. Note=Internalized at the canalicular membrane through interaction with the adapter protein complex 2 (AP-2) (PubMed:22262466). At steady state, localizes in the canalicular membrane but is also present in recycling endosomes. ABCB11 constantly and rapidly exchanges between the two sites through tubulo-vesicles carriers that move along microtubules. Microtubule-dependent trafficking of ABCB11 is enhanced by taurocholate and cAMP and regulated by STK11 through a PKA-mediated pathway. Trafficking of newly synthesized ABCB11 through endosomal compartment to the bile canalicular membrane is accelerated by cAMP but not by taurocholate (By similarity). Cell membrane expression is up-regulated by short- and medium-chain fatty acids (PubMed:20398791) {ECO:0000250   UniProtKB:O70127, ECO:0000269   PubMed:20398791, ECO:0000269   PubMed:22262466} |
| <b>Tissue Location</b>   | Expressed predominantly, if not exclusively in the liver, where it was further localized to the canalicular microvilli and to subcanalicular vesicles of the hepatocytes by in situ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

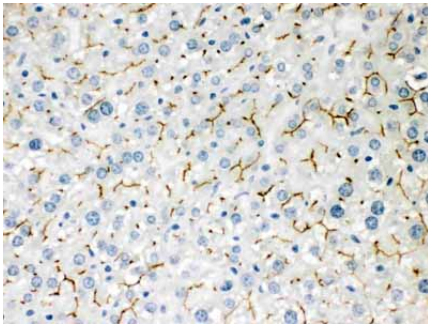
## Background

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.

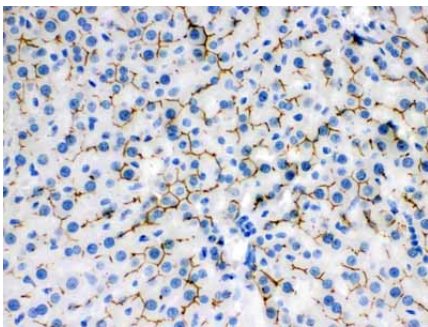
## Images



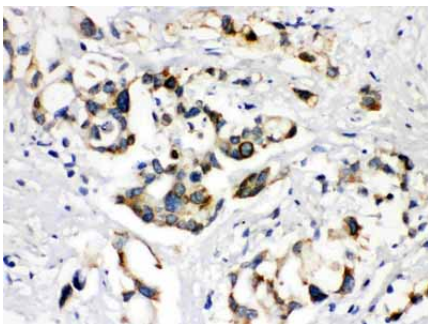
Anti- ABCB11 Picoband antibody, ABO12104, Western blotting  
All lanes: Anti ABCB11 (ABO12104) at 0.5ug/ml  
Lane 1: Rat Liver Tissue Lysate at 50ug  
Lane 2: Mouse Liver Tissue Lysate at 50ug  
Lane 3: SMMC Whole Cell Lysate at 40ug  
Predicted bind size: 146KD  
Observed bind size: 146KD



Anti- ABCB11 Picoband antibody, ABO12104,  
IHC(P)IHC(P): Mouse Liver Tissue



Anti- ABCB11 Picoband antibody, ABO12104,  
IHC(P)IHC(P): Rat Liver Tissue



Anti- ABCB11 Picoband antibody, ABO12104,  
IHC(P)IHC(P): Human Liver Cancer Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.