

**Anti-ABCB11 Picoband Antibody**  
Catalog # ABO12104**Specification**

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**Anti-ABCB11 Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">O95342</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Bile salt export pump(ABCB11) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-ABCB11 Picoband Antibody - Additional Information**

**Gene ID** 8647

**Other Names**

Bile salt export pump, ATP-binding cassette sub-family B member 11, ABCB11, BSEP

**Calculated MW**

146407 MW KDa

**Application Details**

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<br>

**Subcellular Localization**

Membrane; Multi-pass membrane protein.

**Tissue Specificity**

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.

**Protein Name**

Bile salt export pump

**Contents**

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.

**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.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**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.**

**Sequence Similarities**

Belongs to the ABC transporter superfamily. ABCB family. Multidrug resistance exporter (TC 3.A.1.201) subfamily.

**Anti-ABCB11 Picoband Antibody - Protein Information**

**Name** ABCB11 ([HGNC:42](#))

**Synonyms** BSEP {ECO:0000303|Ref.2}

**Function**

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="http://www.uniprot.org/citations/15791618" target="\_blank">15791618</a>, PubMed:<a href="http://www.uniprot.org/citations/16332456" target="\_blank">16332456</a>, PubMed:<a href="http://www.uniprot.org/citations/18985798" target="\_blank">18985798</a>, PubMed:<a href="http://www.uniprot.org/citations/19228692" target="\_blank">19228692</a>, PubMed:<a href="http://www.uniprot.org/citations/20010382" target="\_blank">20010382</a>, PubMed:<a href="http://www.uniprot.org/citations/20398791" target="\_blank">20398791</a>, PubMed:<a href="http://www.uniprot.org/citations/22262466" target="\_blank">22262466</a>, PubMed:<a href="http://www.uniprot.org/citations/24711118" target="\_blank">24711118</a>, PubMed:<a href="http://www.uniprot.org/citations/29507376" target="\_blank">29507376</a>, PubMed:<a href="http://www.uniprot.org/citations/32203132" target="\_blank">32203132</a>). Transports taurine-conjugated bile salts more rapidly than glycine-conjugated bile salts (PubMed:<a href="http://www.uniprot.org/citations/16332456" target="\_blank">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="http://www.uniprot.org/citations/15901796" target="\_blank">15901796</a>, PubMed:<a href="http://www.uniprot.org/citations/18245269" target="\_blank">18245269</a>).

**Cellular Location**

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}

#### Tissue Location

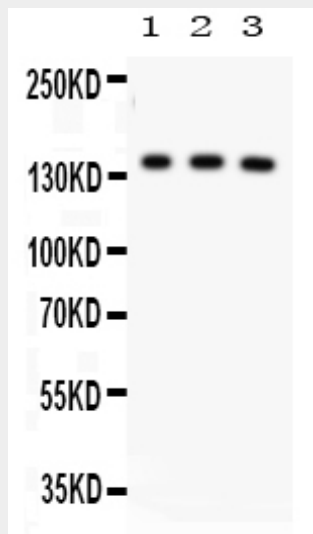
Expressed predominantly, if not exclusively in the liver, where it was further localized to the canalicular microvilli and to subcanalicular vesicles of the hepatocytes by in situ

#### Anti-ABCB11 Picoband Antibody - Protocols

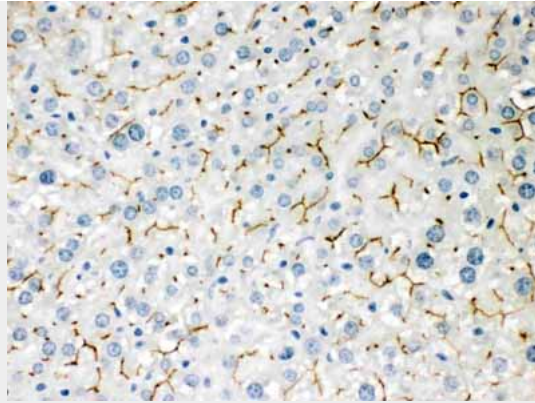
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

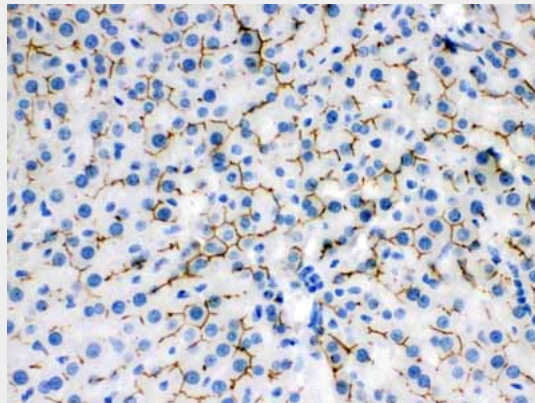
#### Anti-ABCB11 Picoband Antibody - Images



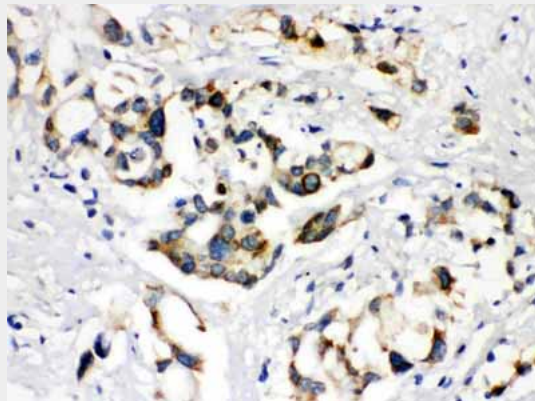
Anti- ABCB11 Picoband antibody, ABO12104, Western blotting All lanes: Anti ABCB11 (ABO12104) at 0.5ug/ml  
Lane 1: Rat Liver Tissue Lysate at 50ug  
Lane 2: Mouse Liver Tissue Lysate at 50ug  
Lane 3: SMC Whole Cell Lysate at 40ug  
Predicted bind size: 146KD  
Observed bind size: 146KD



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

#### **Anti-ABCB11 Picoband Antibody - 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.