



Rabbit Anti-ABCB11 antibody

SL12440R

Product Name:	ABCB11
Chinese Name:	胆汁酸盐输出泵/ATP结合盒Transporter11抗体
Alias:	BSEP; ABC member 16, MDR/TAP subfamily; 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; Bile salt export pump; BRIC2; Bsep; PGY4; progressive familial intrahepatic cholestasis 2; Sister of P glycoprotein; Spgp.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Rabbit,
Applications:	IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	146kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human BSEP/ABCB11:1001-1100/1321<Cytoplasmic>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	ATP-binding cassette (ABC) transporters are an evolutionarily conserved family of proteins that catalyze the transport of molecules across extra- and intracellular membranes through the energy of ATP hydrolysis. ABC genes comprise seven

subfamilies, designated ABC1, Mdr/TAP, MRP, ALD, OABP, GCN20 and White. The secretion of bile salt molecules from blood into bile is a major driving force for bile formation. Bile salt export pump (BSEP) is a member of the Mdr/TAP subfamily of ABC transporters that mediates the transport of bile acids across the hepatocyte canalicular membrane and regulates bile acid-dependent bile secretion. BSEP contains putative phosphorylation sites for protein kinase A, protein kinase C (PKC) and Ca²⁺-calmodulin dependent kinase II, whose regulation may be dependent on bile salt concentration.

Function:

Involved in the ATP-dependent secretion of bile salts into the canaliculus of hepatocytes.

Subunit:

Interacts with HAX1.

Subcellular Location:

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.

DISEASE:

Defects in ABCB11 are the cause of progressive familial intrahepatic cholestasis type 2 (PFIC2) [MIM:601847]. PFIC2 is an inherited liver disease of childhood which is characterized by cholestasis and normal serum gamma-glutamyltransferase activity. Defects in ABCB11 are also found in cases of chronic intrahepatic cholestasis without obvious familial history of chronic liver disease.

Defects in ABCB11 are the cause of benign recurrent intrahepatic cholestasis type 2 (BRIC2) [MIM:605479]. BRIC is characterized by intermittent episodes of cholestasis without progression to liver failure. There is initial elevation of serum bile acids, followed by cholestatic jaundice which generally spontaneously resolves after periods of weeks to months. The cholestatic attacks vary in severity and duration and patients are asymptomatic between episodes, both clinically and biochemically.

Similarity:

Belongs to the ABC transporter superfamily. ABCB family.

Multidrug resistance exporter (TC 3.A.1.201) subfamily.

Contains 2 ABC transmembrane type-1 domains.

Contains 2 ABC transporter domains.

SWISS:

O95342

Gene ID:

8647

Database links:

[Entrez Gene: 8647](#)Human

[Entrez Gene: 27413](#)Mouse

[Entrez Gene: 83569](#)Rat

[Omim: 603201](#)Human

[SwissProt: O95342](#)Human

[SwissProt: Q9QY30](#)Mouse

[SwissProt: O70127](#)Rat

[Unigene: 658439](#)Human

[Unigene: 439855](#)Mouse

[Unigene: 14539](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.