abcam

Product datasheet

Anti-ABCB11/BSEP antibody [EPR22670-64] ab255605

Recombinant RabMAb

6 Images

Overview

Product name	Anti-ABCB11/BSEP antibody [EPR22670-64]
Description	Rabbit monoclonal [EPR22670-64] to ABCB11/BSEP
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, Flow Cyt (Intra), IHC-P **Unsuitable for:** IP or WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human hepatocellular carcinoma and liver tissue. ICC/IF: HEK-293T cells transfected with myc-tagged BSEP. Flow Cyt (intra): HEK-293T cells transfected with myc-tagged BSEP.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22670-64

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab255605 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100.
Flow Cyt (Intra)		1/600.
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Application notes Is unsuitable for IP or WB.

Target

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

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.

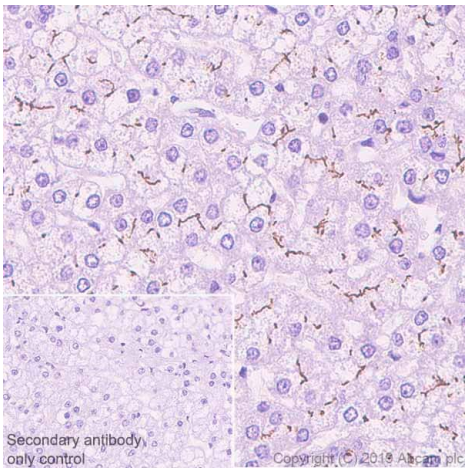
Involvement in disease Defects in ABCB11 are the cause of progressive familial intrahepatic cholestasis type 2 (PFIC2) [MIM:601847]. PFIC2 is an inherited liver disease of childhood which is characterized by cholestasis and normal serum gamma-glutamyltransferase activity. Defects in ABCB11 are also found 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.

Sequence similarities 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.

Domain Multifunctional polypeptide with two homologous halves, each containing an hydrophobic membrane-anchoring domain and an ATP binding cassette (ABC) domain.

Cellular localization Membrane.

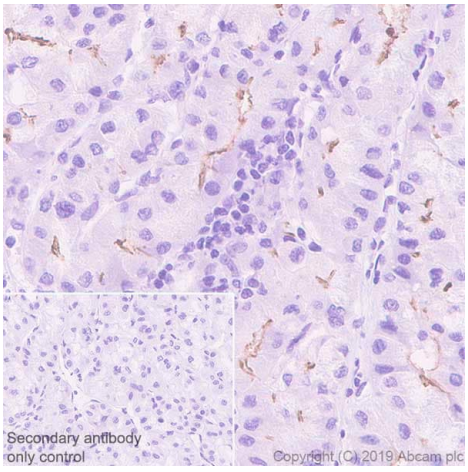
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ABCB11/BSEP antibody [EPR22670-64] (ab255605)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling BSEP with ab255605 at 1/500 dilution (1.288µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining in canaliculi of human liver (PMID: 26182153) is observed. Counterstained with hematoxylin. Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

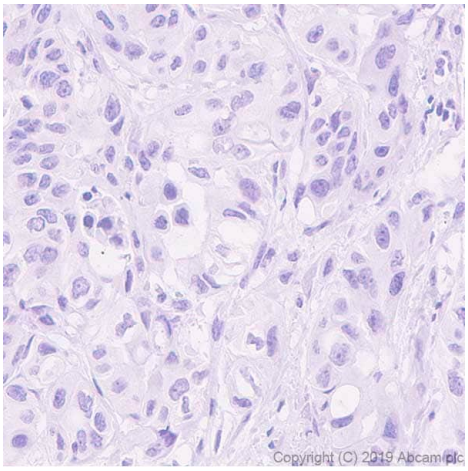


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ABCB11/BSEP antibody [EPR22670-64] (ab255605)

Immunohistochemical analysis of paraffin-embedded human hepatocellular carcinoma tissue labeling BSEP with ab255605 at 1/500 dilution (1.288µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining in canaliculi of human hepatocellular carcinoma (PMID: 26735860) is observed.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

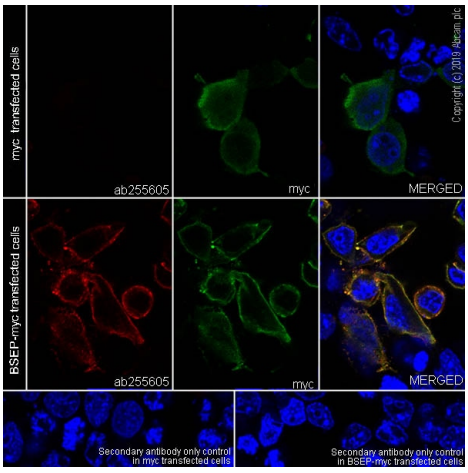
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ABCB11/BSEP antibody [EPR22670-64] (ab255605)

Immunohistochemical analysis of paraffin-embedded human cholangiocarcinomas tissue labeling BSEP with ab255605 at 1/500 dilution (1.288µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). **Negative staining** in human cholangiocarcinomas (PMID: 26735860) is observed. Counterstained with hematoxylin. Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

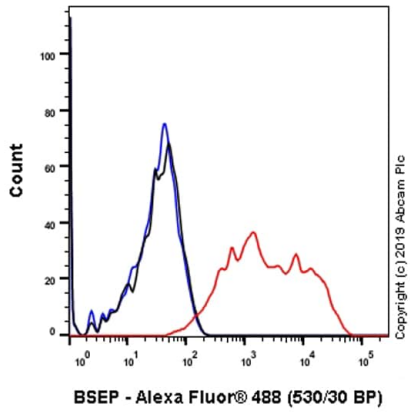


Immunocytochemistry/ Immunofluorescence - Anti-ABCB11/BSEP antibody [EPR22670-64] (ab255605)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HEK-293T (human embryonic kidney epithelial cell) cells labeling BSEP with ab255605 at 1/100, (6.4µg/ml) dilution, followed by aab150080 AlexaFluor®594 Goat anti-Rabbit secondary antibody at 1/1000, (2µg/ml) dilution (Red). Confocal image showing membranous and cytoplasmic staining in 293T cells transfected with myc-tagged BSEP expression vector. Myc-Tag Mouse mAb (Alexa Fluor® 488) was used as a counterstain (Green) at 1/100 dilution (Red). The nuclear counterstain was DAPI (Blue).

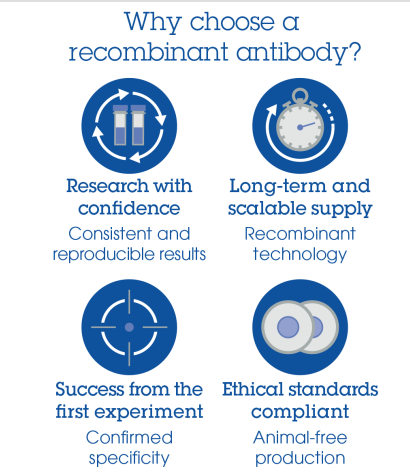
Negative control: myc-transfected cells.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** AlexaFluor® 488 Goat anti-Rabbit secondary at 1/1000, 2µg/ml dilution.



Flow Cytometry (Intracellular) - Anti-ABCB11/BSEP antibody [EPR22670-64] (ab255605)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized HEK-293T (human embryonic kidney epithelial cell) transfected with myc-tagged BSEP expression vector cells labeling BSEP with ab255605 at 1/600 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody. Gated on myc (+) population.



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