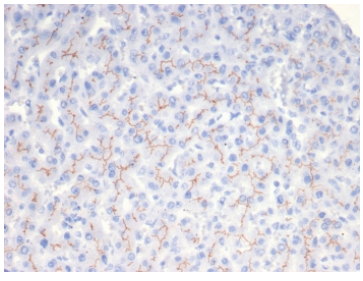
BSEP Antibody / Bile Salt Export Pump / ABCB11 [clone BSEP/7534] (V4921)

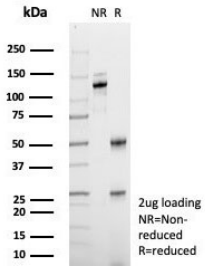
Catalog No.	Formulation	Size
V4921-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4921-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4921SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

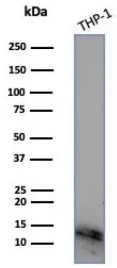
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	BSEP/7534
Purity	Protein A/G affinity
UniProt	O95342
Localization	Membrane, cytoplasm
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This BSEP Antibody / Bile Salt Export Pump is available for research use only.



BSEP Antibody Human Liver IHC. Immunohistochemical staining of FFPE human liver tissue using BSEP Antibody / Bile Salt Export Pump Antibody at 2 ug/ml. HIER was performed in pH 9 Tris-EDTA buffer. An HRP-conjugated secondary antibody with DAB substrate was used for detection. BSEP Antibody demonstrates strong canalicular membranous staining of hepatocytes in a characteristic chicken-wire pattern, consistent with the normal localization of the bile salt export pump in liver tissue.



SDS-PAGE analysis of purified, BSA-free BSEP antibody (clone BSEP/7534) as confirmation of integrity and purity.



BSEP Antibody THP-1 Cell WB. Western blot analysis of THP-1 cell lysate using BSEP Antibody / Bile Salt Export Pump Antibody. An HRP-conjugated secondary antibody with ECL substrate was used for detection. BSEP Antibody detects a predominant band at approximately 12-15 kDa in THP-1 cell lysate.

Description

BSEP Antibody recognizes the bile salt export pump (BSEP), also known as ATP-binding cassette subfamily B member 11 (ABCB11), a liver-specific ATP-dependent transporter responsible for the secretion of bile acids from hepatocytes into the bile canaliculi. Localized almost exclusively to the canalicular membrane of hepatocytes, BSEP plays an essential role in maintaining bile flow, cholesterol metabolism, and enterohepatic circulation. By exporting bile salts against a concentration gradient, BSEP helps preserve hepatocellular homeostasis while facilitating the digestion and absorption of dietary lipids and fat-soluble vitamins. Because of its highly restricted hepatic expression, BSEP Antibody is widely used to investigate liver physiology, hepatocyte polarity, and bile acid transport.

Loss of BSEP function disrupts normal bile acid secretion, leading to intracellular accumulation of toxic bile salts and progressive liver injury. Mutations in the ABCB11 gene are responsible for several inherited cholestatic disorders, including progressive familial intrahepatic cholestasis type 2 (PFIC2), benign recurrent intrahepatic cholestasis type 2 (BRIC2), and other forms of hereditary cholestasis. Reduced BSEP expression or impaired transporter activity has also been associated with drug-induced liver injury, pregnancy-associated cholestasis, chronic liver disease, and hepatocellular carcinoma. Consequently, BSEP Antibody is an important tool for studies of hepatic transporter biology, cholestatic disease mechanisms, and liver pathology.

Beyond inherited disease, BSEP has become an important target during pharmaceutical development because inhibition of the transporter is a recognized mechanism underlying drug-induced cholestasis. Many compounds are routinely screened for their effects on BSEP activity during preclinical safety assessment to reduce the risk of hepatotoxicity. Immunohistochemical analysis of BSEP expression is also valuable for evaluating hepatocyte differentiation, canalicular integrity, and biliary function in both experimental models and clinical tissue specimens. The characteristic canalicular chicken-wire staining pattern observed with BSEP Antibody makes it a useful marker of normal hepatocyte polarity and canalicular membrane architecture.

This BSEP Antibody, clone BSEP/7534, has been validated for immunohistochemistry, demonstrating strong canalicular membranous staining in human liver consistent with the normal localization of the bile salt export pump. For additional information on transporter biology, validated applications, and related products, explore our ABCB11 Antibody, a Bile Salt Export Pump Antibody for research involving bile acid transport, cholestasis, liver physiology, and hepatobiliary disease.

Learn more about our ABCB11 Antibody, a Bile Salt Export Pump Antibody validated for studies of bile acid transport, hepatocyte function, and liver disease.

Application Notes

Optimal dilution of the BSEP Antibody / Bile Salt Export Pump should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 600-800) from the human protein was used as the immunogen for the BSEP antibody.

Storage

Aliquot the BSEP antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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