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.

**CHROMOSOMAL LOCATION**

Genetic locus: ABCB11 (human) mapping to 2q31.1; Abcb11 (mouse) mapping to 2 C2.

**SOURCE**

BSEP (F-6) is a mouse monoclonal antibody raised against amino acids 1-180 of BSEP of human origin.

**PRODUCT**

Each vial contains 200 µg IgG₂a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

BSEP (F-6) is available conjugated to agarose (sc-74500 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-74500 HRP), 200 µg/ml, for WB, ICIP and ELISA; to either phycoerythrin (sc-74500 PE), fluorescein (sc-74500 FITC), Alexa Fluor® 488 (sc-74500 AF488), Alexa Fluor® 546 (sc-74500 AF546), Alexa Fluor® 594 (sc-74500 AF594) or Alexa Fluor® 647 (sc-74500 AF647), 200 µg/ml, for WB (RGB), IF, ICIP and FCM; and to either Alexa Fluor® 680 (sc-74500 AF680) or Alexa Fluor® 790 (sc-74500 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

BSEP (F-6) is recommended for detection of BSEP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for BSEP siRNA (h): sc-41157, BSEP siRNA (m): sc-41158, BSEP shRNA Plasmid (h): sc-41157-SH, BSEP shRNA Plasmid (m): sc-41158-SH, BSEP shRNA (h) Lentiviral Particles: sc-41157-V and BSEP shRNA (m) Lentiviral Particles: sc-41158-V.

Molecular Weight of BSEP: 160-190 kDa.

Positive Controls: c4 whole cell lysate: sc-364186, C3H/10T1/2 cell lysate: sc-3801 or KNRK whole cell lysate: sc-2214.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUC T CITATIONS**

2. Okushin, K., et al. 2015. The intrahepatic expression levels of bile acid transporters are inversely correlated with the histological progression of nonalcoholic fatty liver disease. J. Gastroenterol. 51: 808-818.
6. Okushin, K., et al. 2016. The intrahepatic expression levels of bile acid transporters are inversely correlated with the histological progression of nonalcoholic fatty liver disease. J. Gastroenterol. 51: 808-818.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.