

Mouse Anti-ABCB11/BRIC2/BSEP [10D4.1]: MC0118, MC0118RTU7

Intended Use: For Research Use Only

Description: Bile salt export pump (UniProt O95342; also known as ATP-binding cassette sub-family B member 11, Sister of P-glycoprotein) is encoded by the ABCB11 (also known as BRIC2, BSEP, PFIC2, SPGP) gene (Gene ID 8647) in human. Bile is produced by hepatocytes in the liver and released into the biliary system of ducts and gallbladder. After food ingestion, bile is released in the form of mixed micelles of salts and phospholipids into the duodenum where its detergent properties act to solubilize lipids to help their absorption by the intestine. Bile salt export pump is an ATP-binding cassette (ABC) family member localized to the hepatocyte canalicular membrane where it plays an important role in the bile salt-dependent bile flow and the normal enterohepatic circulation of bile salts from the distal intestine back to the liver. ABCB11/BSEP gene mutations are associated with progressive familial intrahepatic cholestasis type 2 (PFIC2), benign recurrent intrahepatic cholestasis type 2 (BRIC2), drug-induced cholestasis, hormone-dependent intrahepatic cholestasis of pregnancy (ICP), biliary lithiasis, and transient neonatal cholestasis, as a result of impaired bile flow. Bile salt export pump is a 12-transmembrane protein (a.a. 63-83, 148-168, 216-236, 241-261, 320-340, 354-374, 756-776, 795-815, 870-890, 891-911, 980-1000, 1012-1032) with both its N- and C-terminal ends exposed cytoplasmically (a.a. 1-62 and 1033-1321).

Specifications

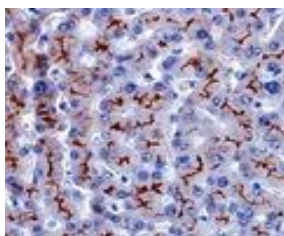
Clone:	10D4.1
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, WB
Package:	

Description	Catalog No.	Size
ABCB11/BRIC2/BSEP Concentrated	MC0118	1 ml
ABCB11/BRIC2/BSEP Prediluted	MC0118RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Liver, Jurkat whole cell lysate, AGS xenograft, A431 cells.
Concentrated Dilution:	50-200
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human liver tissue stained with anti-ABCB11 using DAB

References:

1. A novel mutation within a transmembrane helix of the bile salt export pump (BSEP, ABCB11) with delayed development of cirrhosis. Stindt J, et al. Liver Int. Nov;33(10):1527-35, 2013.
2. Bile salt export pump deficiency: A de novo mutation in a child compound heterozygous for ABCB11. Laboratory investigation to study pathogenic role and transmission of two novel ABCB11 mutations. Francalanci P, et al. Hepatol Res. Mar;43(3):315-9, 2013.