

Rabbit Anti-ATP8B1/PFIC1 Polyclonal: RC0008

Intended Use: For Research Use Only

Description: Found in most tissues except brain and skeletal muscle. Most abundant in pancreas and small intestine. May play a role in the transport of aminophospholipids from the outer to the inner leaflet of various membranes and the maintenance of asymmetric distribution of phospholipids in the canicular membrane. May have a role in transport of bile acids into the canaliculus, uptake of bile acids from intestinal contents into intestinal mucosa or both. Defects in ATP8B1 are the cause of progressive familial intrahepatic cholestasis type 1 (PFIC1); also known as Byler disease. PFIC1 is an autosomal recessive disorder, characterized by early infancy cholestasis, that may be initially episodic but progresses to malnutrition, growth retardation and end-stage liver disease before adulthood. Defects in ATP8B1 are the cause of benign recurrent intrahepatic cholestasis type 1 (BRIC1); also known as Summerskill syndrome. BRIC1 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. Patients are asymptomatic between episodes, both clinically and biochemically.

Specifications

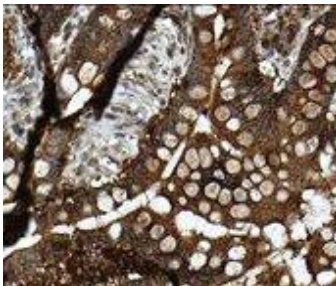
Clone: Polyclonal
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Immunogen: Synthetic peptide from c-terminal region of human ATP8B1 conjugated to an immunogenic carrier protein
 Localization: Membrane, cytoplasm
 Formulation: Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, WB
 Package:

Description	Catalog No.	Size
ATP8B1/PFIC1 Polyclonal Concentrated	RC0008	1 ml

IHC Procedure*

Positive Control Tissue: Skeletal muscle
 Concentrated Dilution: 10-100
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes 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 colon tissue stained with anti-ATP8B1 using DAB

References:

1. Identification of ATP8B1 as a blood-brain barrier-enriched protein. Haas MJ, et al. Cell Mol Neurobiol. May;34(4), 2014.
2. ATP8B1 deficiency in mice reduces resistance of the canicular membrane to hydrophobic bile salts and impairs bile salt transport. Paulusma CC, et al. Hepatology. Jul;44(1):195-204, 2006.
3. FIC1, the protein affected in two forms of hereditary cholestasis, is localized in the cholangiocyte and the canicular membrane of the hepatocyte. Eppens EF, et al. J Hepatol. Oct;35(4):436-43, 2001.