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Product datasheet

Anti-ATP8B1 antibody ab121576

4 Images

Overview

Product name	Anti-ATP8B1 antibody
Description	Rabbit polyclonal to ATP8B1
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	KIWVLTGDKK ETAENIGFAC ELLTEDTTIC YGEDINSLLH ARMENQRNRG GVYAKFAPPV QESFFPPGGN RALII internal sequence amino acids 727-801 of Human ATP8B1. Run BLAST with ExPASy Run BLAST with NCBI
Positive control	IHC-P: Human lymph node, liver, kidney and cerebral cortex tissue.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab121576 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
IHC-P		1/20 - 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Use buffer at pH 6 for antigen retrieval.

Target

Function 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.

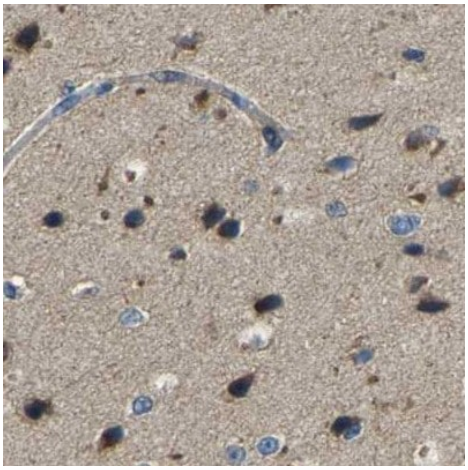
Tissue specificity Found in most tissues except brain and skeletal muscle. Most abundant in pancreas and small intestine.

Involvement in disease Defects in ATP8B1 are the cause of progressive familial intrahepatic cholestasis type 1 (PFIC1) [MIM:211600]; 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) [MIM:243300]; also known as Summerskill syndrome. 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. Patients are asymptomatic between episodes, both clinically and biochemically.
Defects in ATP8B1 can be associated with intrahepatic cholestasis of pregnancy (ICP) [MIM:147480]; also known as pregnancy-related cholestasis. ICP is a multifactorial liver disorder of pregnancy. It presents during the second or, more commonly, the third trimestre of pregnancy with intense pruritus which becomes more severe with advancing gestation and cholestasis. Cholestasis results from abnormal biliary transport from the liver into the small intestine. ICP causes fetal distress, spontaneous premature delivery and intrauterine death. ICP patients have spontaneous and progressive disappearance of cholestasis after delivery.

Sequence similarities Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IV subfamily.

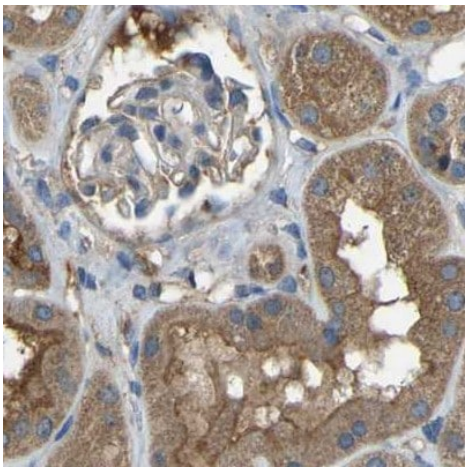
Cellular localization Membrane.

Images



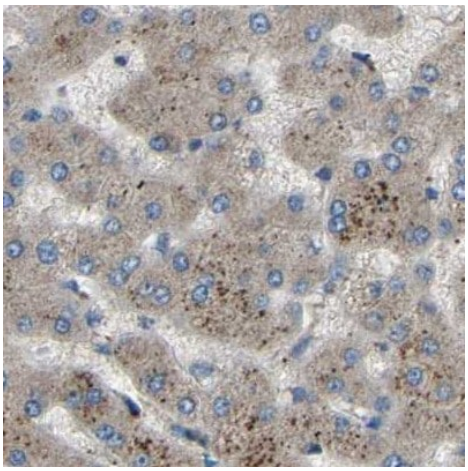
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP8B1 antibody (ab121576)

Immunohistochemical analysis of human cerebral cortex tissue labeling ATP8B1 with ab121576 at 1/20 dilution.



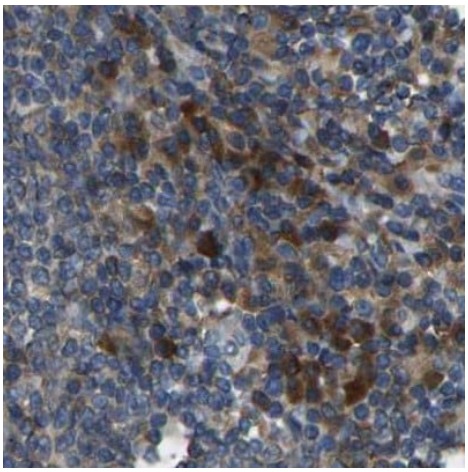
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP8B1 antibody (ab121576)

Immunohistochemical analysis of human kidney tissue labeling ATP8B1 with ab121576 at 1/20 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP8B1 antibody (ab121576)

Immunohistochemical analysis of human liver tissue labeling ATP8B1 with ab121576 at 1/20 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP8B1 antibody (ab121576)

Immunohistochemical analysis of human lymph node tissue labeling ATP8B1 with ab121576 at 1/20 dilution.

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