

## Product datasheet

# Anti-ABCB4 antibody ab71792

★★★★★ 1 Abreviews 2 References 2 Images

### Overview

<b>Product name</b>	Anti-ABCB4 antibody
<b>Description</b>	Rabbit polyclonal to ABCB4
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	A KLH conjugated synthetic peptide selected selected from the central region of human ABCB4.
<b>Positive control</b>	Human hepatocarcinoma tissue and mouse heart tissue lysates.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.09% Sodium azide Constituent: PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	This antibody is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

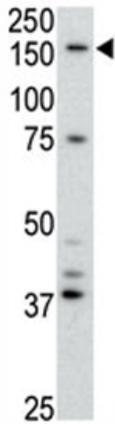
### Applications

Our [Abpromise guarantee](#) covers the use of **ab71792** 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
WB		
ELISA		

Application	Abreviews	Notes
IHC-P	★★★★★	
<b>Application notes</b>	<p>ELISA: 1/1000.  IHC-P: 1/50 - 1/100.  WB: 1/100 - 1/500. Detects bands of approximately 40, 43, 47, 75 and 170 kDa (predicted molecular weight: 141 kDa).</p> <p>Not yet tested in other applications.  Optimal dilutions/concentrations should be determined by the end user.</p>	
<b>Target</b>		
<b>Function</b>	<p>Mediates ATP-dependent export of organic anions and drugs from the cytoplasm. Hydrolyzes ATP with low efficiency. Human MDR3 is not capable of conferring drug resistance. Mediates the translocation of phosphatidylcholine across the canalicular membrane of the hepatocyte.</p>	
<b>Involvement in disease</b>	<p>Defects in ABCB4 are the cause of progressive familial intrahepatic cholestasis type 3 (PFIC3) [MIM:602347]. PFIC3 is an autosomal recessive liver disorder presenting with early onset cholestasis that progresses to cirrhosis and liver failure before adulthood. It is characterized by elevated serum gamma-glutamyltransferase levels.</p> <p>Defects in ABCB4 are a cause of intrahepatic cholestasis of pregnancy (ICP) [MIM:147480]; also known as obstetric 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.</p> <p>Defects in ABCB4 are a cause of gallbladder disease type 1 (GBD1) [MIM:600803]. It is one of the major digestive diseases. Gallstones composed of cholesterol (cholelithiasis) are the common manifestations in western countries. Most people with gallstones, however, remain asymptomatic through their lifetimes.</p>	
<b>Sequence similarities</b>	<p>Belongs to the ABC transporter superfamily. ABCB family. Multidrug resistance exporter (TC 3.A.1.201) subfamily.</p> <p>Contains 2 ABC transmembrane type-1 domains.</p> <p>Contains 2 ABC transporter domains.</p>	
<b>Cellular localization</b>	<p>Cell membrane.</p>	
<b>Images</b>		



Western blot - Anti-ABCB4 antibody (ab71792)

Anti-ABCB4 antibody (ab71792) at 1/100 dilution + Mouse heart tissue lysates at 12.5 µg

**Secondary**

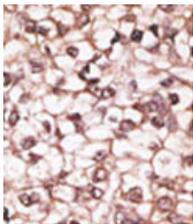
HRP-anti-rabbit

**Predicted band size:** 141 kDa

**Observed band size:** 170 kDa

[why is the actual band size different from the predicted?](#)

**Additional bands at:** 40& 43 kDa, 47 kDa, 75 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ABCB4 antibody (ab71792)

Formalin-fixed, paraffin-embedded human hepatocarcinoma tissue reacted with ab71792 at a 1:50 dilution, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

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