abcam

Product datasheet

Anti-ABCB4 antibody [P3II-26] ab24108

6 References 1 Image

Overview

Product name	Anti-ABCB4 antibody [P3II-26]
Description	Mouse monoclonal [P3II-26] to ABCB4
Host species	Mouse
Specificity	Clone P3II-26 does not cross-react with the human ABCB1.
Tested applications	**Suitable for:** Flow Cyt **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment within Human ABCB4 aa 600-700 (internal sequence). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Run BLAST with Run BLAST with
Epitope	Clone P3II-26 reacts with an internal epitope of ABCB4.
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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	pH: 7.3 Preservative: 0.1% Sodium azide Constituent: 0.7% BSA Serum free tissue culture supernatant

Purity	Protein G purified
Clonality	Monoclonal
Clone number	P3II-26
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab24108 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
Flow Cyt		Use 1µg for 10^6 cells. **ab170192** - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for IHC-P.

Target

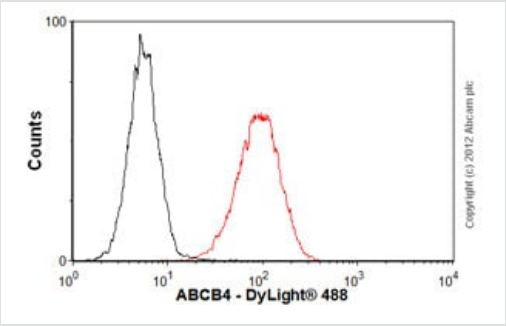
Function Mediates ATP-dependent export of organic anions and drugs from the cytoplasm. Hydrolyzes ATP with low efficiency. Human MDR3 is not capable of conferring drug resistance. Mediates the translocation of phosphatidylcholine across the canalicular membrane of the hepatocyte.

Involvement in disease 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.
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.
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.

Sequence similarities Belongs to the ABC transporter superfamily. ABCB family. Multidrug resistance exporter (TC 3.A.1.201) subfamily.
Contains 2 ABC transmembrane type-1 domains.
Contains 2 ABC transporter domains.

Cellular localization Cell membrane.

Images



Flow Cytometry - Anti-ABCB4 antibody [P3II-26] (ab24108)

Overlay histogram showing HeLa cells stained with ab24108 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab24108, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (**ab91366**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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