Product datasheet

Anti-P Glycoprotein antibody ab129450

Overview

Product name: Anti-P Glycoprotein antibody
Description: Rabbit polyclonal to P Glycoprotein
Host species: Rabbit
Tested applications: Suitable for: WB, IP, ICC/IF
Species reactivity: Reacts with: Human
Predicted to work with: Chimpanzee
Immunogen: Synthetic peptide corresponding to a region within amino acids 1-50 of Human P Glycoprotein (NP_000918.2)
Positive control: HeLa, Jurkat and 293T whole cell lysate

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer: Preservative: 0.09% Sodium azide
Constituent: 99% Tris citrate/phosphate
pH: 7-8
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab129450 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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**Function**

Energy-dependent efflux pump responsible for decreased drug accumulation in multidrug-resistant cells.

**Tissue specificity**

Expressed in liver, kidney, small intestine and brain.

**Involvement in disease**

Genetic variations in ABCB1 are associated with susceptibility to inflammatory bowel disease type 13 (IBD13) [MIM:612244]. Inflammatory bowel disease is characterized by a chronic relapsing intestinal inflammation. It is subdivided into Crohn disease and ulcerative colitis phenotypes. Crohn disease may involve any part of the gastrointestinal tract, but most frequently the terminal ileum and colon. Bowel inflammation is transmural and discontinuous; it may contain granulomas or be associated with intestinal or perianal fistulas. In contrast, in ulcerative colitis, the inflammation is continuous and limited to rectal and colonic mucosal layers; fistulas and granulomas are not observed. Both diseases include extraintestinal inflammation of the skin, eyes, or joints. Crohn disease and ulcerative colitis are commonly classified as autoimmune diseases.

**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**

Membrane.

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<td>IP</td>
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<td>Use at 2-10 µg/mg of lysate.</td>
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<td>ICC/IF</td>
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**Images**

**Western blot - Anti-P Glycoprotein antibody (ab129450)**

**All lanes**: Anti-P Glycoprotein antibody (ab129450) at 0.4 µg/ml

Lane 1: HeLa whole cell lysate at 50 µg

Lane 2: HeLa whole cell lysate at 15 µg

Lane 3: 293T whole cell lysate at 50 µg

Lane 4: Jurkat whole cell lysate at 50 µg

Developed using the ECL technique.

**Predicted band size**: 141 kDa

**Exposure time**: 10 seconds
ICC/IF image of ab129450 stained human hepatocyte-like cells. The cells were fixed in methanol and then incubated in 10% BSA for 1 hour to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab129450, 1/200) overnight at +4°C. The secondary antibody (red) was Alexa Fluor® 568 goat anti-rabbit used at a 1/400 dilution.

Detection of P Glycoprotein by Western Blot of Immunprecipitate.
Lane 1: ab129450 at 1µg/ml staining P Glycoprotein in HeLa whole cell lysate immunoprecipitated using ab129450 at 6µg/mg lysate (1 mg/IP; 20% of IP loaded/lane).
Lane 2: Control IgG
Detection: Chemiluminescence with exposure time of 30 seconds.

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