

P-Glycoprotein (ABCB1) Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6111a

Specification

P-Glycoprotein (ABCB1) Antibody (Center) - Product Information

| | |
|-------------------|------------------------|
| Application | WB,E |
| Primary Accession | P08183 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 141479 |
| Antigen Region | 647-677 |

P-Glycoprotein (ABCB1) Antibody (Center) - Additional Information

Gene ID 5243

Other Names

Multidrug resistance protein 1, ATP-binding cassette sub-family B member 1, P-glycoprotein 1, CD243, ABCB1, MDR1, PGY1

Target/Specificity

This P-Glycoprotein (ABCB1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 647-677 amino acids from the Central region of human P-Glycoprotein (ABCB1).

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

P-Glycoprotein (ABCB1) Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

P-Glycoprotein (ABCB1) Antibody (Center) - Protein Information

Name ABCB1 ([HGNC:40](#))

Synonyms MDR1, PGY1

Function Translocates drugs and phospholipids across the membrane (PubMed:[2897240](#), PubMed:[35970996](#), PubMed:[8898203](#), PubMed:[9038218](#)). Catalyzes the flop of phospholipids from the cytoplasmic to the exoplasmic leaflet of the apical membrane. Participates mainly to the flop of phosphatidylcholine, phosphatidylethanolamine, beta-D- glucosylceramides and sphingomyelins (PubMed:[8898203](#)). Energy-dependent efflux pump responsible for decreased drug accumulation in multidrug- resistant cells (PubMed:[2897240](#), PubMed:[35970996](#), PubMed:[9038218](#)).

Cellular Location

Cell membrane; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00441} Apical cell membrane. Cytoplasm Note=ABCB1 localization is influenced by C1orf115 expression levels (plasma membrane versus cytoplasm). Localized to the apical membrane of enterocytes (PubMed:28408210).

Tissue Location

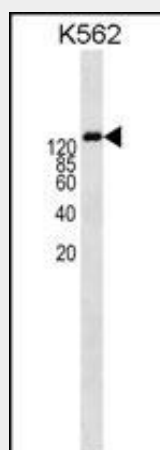
Expressed in small intestine (PubMed:28408210). Expressed in liver, kidney and brain.

P-Glycoprotein (ABCB1) Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

P-Glycoprotein (ABCB1) Antibody (Center) - Images



ABCB1 Antibody (L661) (Cat. #AP6111a) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the ABCB1 antibody detected the ABCB1 protein (arrow).

P-Glycoprotein (ABCB1) Antibody (Center) - Background

The membrane-associated ABCB1 protein is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the

MDR/TAP subfamily are involved in multidrug resistance. ABCB1 is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier.

P-Glycoprotein (ABCB1) Antibody (Center) - References

Saito, S., et al., J. Hum. Genet. 47(1):38-50 (2002). Kerb, R., et al., Pharmacogenomics 2(1):51-64 (2001). Cascorbi, I., et al., Clin. Pharmacol. Ther. 69(3):169-174 (2001). Hoffmeyer, S., et al., Proc. Natl. Acad. Sci. U.S.A. 97(7):3473-3478 (2000). Mickley, L.A., et al., Blood 91(5):1749-1756 (1998).

P-Glycoprotein (ABCB1) Antibody (Center) - Citations

- [A P-glycoprotein gene serves as a component of the protective mechanisms against 2-tridecanone and abamectin in *Helicoverpa armigera*.](#)
- [Positive Feedback Loop of OCT4 and c-JUN Expedites Cancer Stemness in Liver Cancer.](#)