

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

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

Application	WB,E
Primary Accession	<a href="#">P08183</a>
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

E~~Use at an assay dependent concentration.

**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](#), PubMed:[35507548](#)). 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).

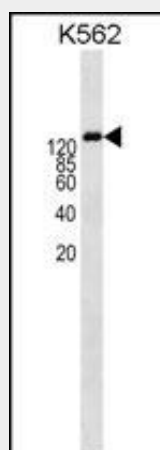
**Tissue Location**

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.](#)