

Product Name: KD-Validated ABCB1 Mouse Monoclonal Antibody**Catalog #: KVA01927**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000
Molecular Weight	Calculated MW: 141.5kDa

Antigen Information

Gene Name	ABCB1
Alternative Names	ABCB1; ATP Binding Cassette Subfamily B Member 1; PGY1; Multidrug Resistance Protein 1; CD243; GP170; ABC20; P-170; P-Gp; MDR1; ATP-Binding Cassette, Sub-Family B (MDR/TAP), Member 1; ATP-Dependent Translocase ABCB1; Phospholipid Transporter ABCB1; Colchicin Sensitivity; P-Glycoprotein 1; CLCS; ATP-Binding Cassette Sub-Family B Member 1; Doxorubicin Resistance; P-Glycoprotein; CD243 Antigen; EC 3.6.3.44; EC 7.6.2.2; EC 7.6.2.1; EC 3.6.3; ENPAT
Gene ID	5243.0
SwissProt ID	P08183
Immunogen	Recombinant protein of human ABCB1

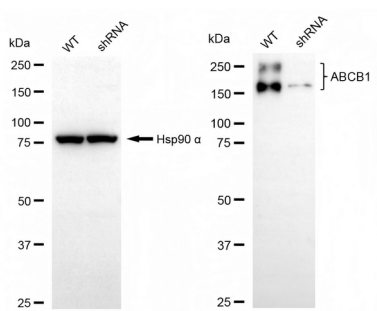
Background

The membrane-associated protein encoded by this gene 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. The protein encoded by this gene 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. Mutations in this gene are associated with colchicine resistance and Inflammatory bowel disease 13. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Feb 2017]

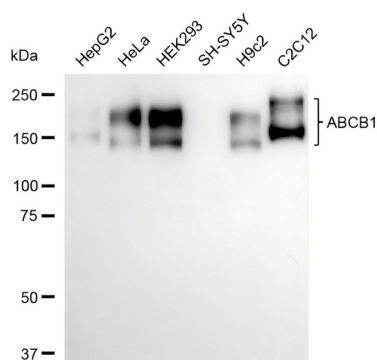
Research Area

Cancer,Neuroscience,Signal Transduction,Stem Cells

Image Data



Western blotting analysis using ABCB1 antibody (KVA01927). ABCB1 expression in wild-type (WT) and ABCB1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ABCB1 antibody (KVA01927, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using ABCB1 antibody (KVA01927). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ABCB1 antibody (KVA01927, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.