

Product Name: KD-Validated ABCG2 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01595**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit 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; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 72.3kDa

Antigen Information

Gene Name	ABCG2
Alternative Names	ABCG2; ATP Binding Cassette Subfamily G Member 2 (Junior Blood Group); BCRP; ABCP; MXR; EST157481; CD338; ATP-Binding Cassette, Sub-Family G (WHITE), Member 2 (Junior Blood Group); Broad Substrate Specificity ATP-Binding Cassette Transporter ABCG2; Placenta-Specific ATP-Binding Cassette Transporter; Mitoxantrone Resistance-Associated Protein; Breast Cancer Resistance Protein; Urate Exporter; CDw338; BCRP1; Broad Substrate Specificity ATP-Binding Cassette Transporter ABCG2 Isoform 1 (Junior Blood Group); Multi Drug Resistance Efflux Transport ATP-Binding Cassette Sub-Family G (WHITE) Member 2; ATP-Binding Cassette, Sub-Family G (WHITE), Member 2; ATP-Binding Cassette Sub-Family G Member02; ATPbinding Cassette Transporter ABCG2; ATP-Binding Cassette Transporter G2; Placenta Specific MDR Protein 2; ABC Transporter; CD338 Antigen; EC 7.6.2.2; CDw38;

	UAQTL1; ABC15; GOUT1; MXR-1; BMDP; MXR1; MRX
Gene ID	9429.0
SwissProt ID	Q9UNQ0
Immunogen	A synthesized peptide derived from human ABCG2

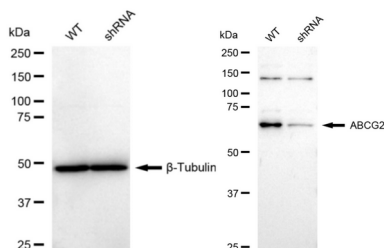
Background

The membrane-associated protein encoded by this gene is included in 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 White subfamily. Alternatively referred to as a breast cancer resistance protein, this protein functions as a xenobiotic transporter which may play a major role in multi-drug resistance. It likely serves as a cellular defense mechanism in response to mitoxantrone and anthracycline exposure. Significant expression of this protein has been observed in the placenta, which may suggest a potential role for this molecule in placenta tissue. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

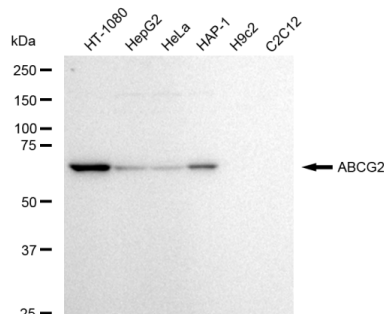
Research Area

Tags & Cell Markers, Signal Transduction, Stem Cells, Cancer, Metabolism, Neuroscience

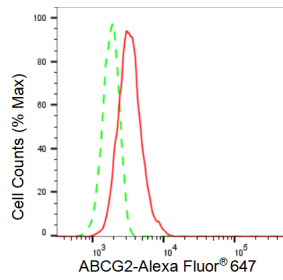
Image Data



Western blotting analysis using ABCG2 antibody (KVA01595). ABCG2 expression in wild type (WT) and ABCG2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with ABCG2 antibody (KVA01595, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using ABCG2 antibody (KVA01595). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ABCG2 antibody (KVA01595, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Flow cytometric analysis of ABCG2 expression in HT-1080 cells using ABCG2 antibody (KVA01595, 1:2,000). Green, isotype control; red, ABCG2.