

**Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody**  
Catalog # ABO13742**Specification****Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O9UNQ0</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human.

**Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 9429

**Other Names**

Broad substrate specificity ATP-binding cassette transporter ABCG2, 7.6.2.2, ATP-binding cassette sub-family G member 2, Breast cancer resistance protein, CDw338, Mitoxantrone resistance-associated protein, Placenta-specific ATP-binding cassette transporter, Urate exporter, CD338, ABCG2, ABCP, BCRP, BCRP1, MXR

**Calculated MW**

72314 MW KDa

**Application Details**

WB 1:500-1:2000

**Subcellular Localization**

Cell membrane; Multi-pass membrane protein. Mitochondrion membrane; Multi-pass membrane protein.

**Tissue Specificity**

Highly expressed in placenta. Low expression in small intestine, liver and colon..

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human ABCG2

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody - Protein Information****Name** ABCG2**Synonyms** ABCP, BCRP, BCRP1, MXR**Function**

Broad substrate specificity ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes a wide variety of physiological compounds, dietary toxins and xenobiotics from cells (PubMed:<a href="http://www.uniprot.org/citations/11306452" target="\_blank">11306452</a>, PubMed:<a href="http://www.uniprot.org/citations/12958161" target="\_blank">12958161</a>, PubMed:<a href="http://www.uniprot.org/citations/19506252" target="\_blank">19506252</a>, PubMed:<a href="http://www.uniprot.org/citations/20705604" target="\_blank">20705604</a>, PubMed:<a href="http://www.uniprot.org/citations/28554189" target="\_blank">28554189</a>, PubMed:<a href="http://www.uniprot.org/citations/30405239" target="\_blank">30405239</a>, PubMed:<a href="http://www.uniprot.org/citations/31003562" target="\_blank">31003562</a>). Involved in porphyrin homeostasis, mediating the export of protoporphyrin IX (PPIX) from both mitochondria to cytosol and cytosol to extracellular space, it also functions in the cellular export of heme (PubMed:<a href="http://www.uniprot.org/citations/20705604" target="\_blank">20705604</a>, PubMed:<a href="http://www.uniprot.org/citations/23189181" target="\_blank">23189181</a>). Also mediates the efflux of sphingosine-1-P from cells (PubMed:<a href="http://www.uniprot.org/citations/20110355" target="\_blank">20110355</a>). Acts as a urate exporter functioning in both renal and extrarenal urate excretion (PubMed:<a href="http://www.uniprot.org/citations/19506252" target="\_blank">19506252</a>, PubMed:<a href="http://www.uniprot.org/citations/20368174" target="\_blank">20368174</a>, PubMed:<a href="http://www.uniprot.org/citations/22132962" target="\_blank">22132962</a>, PubMed:<a href="http://www.uniprot.org/citations/31003562" target="\_blank">31003562</a>, PubMed:<a href="http://www.uniprot.org/citations/36749388" target="\_blank">36749388</a>). In kidney, it also functions as a physiological exporter of the uremic toxin indoxyl sulfate (By similarity). Also involved in the excretion of steroids like estrone 3-sulfate/E1S, 3beta-sulfooxy-androst-5-en-17-one/DHEAS, and other sulfate conjugates (PubMed:<a href="http://www.uniprot.org/citations/12682043" target="\_blank">12682043</a>, PubMed:<a href="http://www.uniprot.org/citations/28554189" target="\_blank">28554189</a>, PubMed:<a href="http://www.uniprot.org/citations/30405239" target="\_blank">30405239</a>). Mediates the secretion of the riboflavin and biotin vitamins into milk (By similarity). Extrudes pheophorbide a, a phototoxic porphyrin catabolite of chlorophyll, reducing its bioavailability (By similarity). Plays an important role in the exclusion of xenobiotics from the brain (Probable). It confers to cells a resistance to multiple drugs and other xenobiotics including mitoxantrone, pheophorbide, camptothecin, methotrexate, azidothymidine, and the anthracyclines daunorubicin and doxorubicin, through the control of their efflux (PubMed:<a href="http://www.uniprot.org/citations/11306452" target="\_blank">11306452</a>, PubMed:<a href="http://www.uniprot.org/citations/12477054" target="\_blank">12477054</a>, PubMed:<a href="http://www.uniprot.org/citations/15670731" target="\_blank">15670731</a>, PubMed:<a href="http://www.uniprot.org/citations/18056989" target="\_blank">18056989</a>, PubMed:<a href="http://www.uniprot.org/citations/31254042" target="\_blank">31254042</a>). In placenta, it limits the penetration of drugs from the maternal plasma into the fetus (By similarity). May play a role in early stem cell self-renewal by blocking differentiation (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane

protein. Mitochondrion membrane; Multi-pass membrane protein. Note=Enriched in membrane lipid rafts

#### Tissue Location

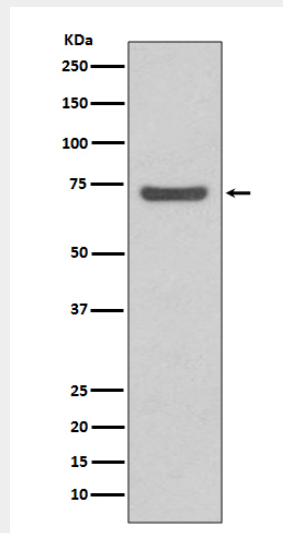
Highly expressed in placenta (PubMed:9850061). Low expression in small intestine, liver and colon (PubMed:9861027) Expressed in brain (at protein level) (PubMed:12958161)

#### Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody - 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](#)

#### Anti-ABCG2/Bcrp Rabbit Monoclonal Antibody - Images



Western blot analysis of ABCG2 expression in 293T cell lysate.