

## Anti-BCRP/ABCG2 Antibody

Catalog Number: PA1870

### About Abcg2

ABCG2 (Atp-binding cassette, subfamily g, member 2) also known as ABCP, BCRP or MRX, is a protein that in humans is encoded by the ABCG2 gene. The ABCG2 gene encodes a membrane transporter belonging to the ATP-binding cassette (ABC) superfamily of membrane transporters, which are involved in the trafficking of biologic molecules across cell membranes. The ABCG2 protein is also a high capacity transporter for uric acid excretion in the kidney, liver, and gut. The ABCG2 gene is mapped on 4q22.1. In vitro assays of isolated membrane preparations revealed a high-capacity, vanadate-sensitive ATPase activity associated with ABCG2 expression that was stimulated by compounds known to be transported by this protein. Ozvegy et al. (2001) concluded that ABCG2 is likely functioning as a homodimer or homooligomer in this expression system since it is unlikely that putative Sf9 transport partners would be overexpressed at similarly high levels. Abcg2 transports pheophorbide-a, which occurs in various plant-derived foods and food supplements and is highly efficient in limiting its uptake from ingested food. ABCG2 is a major factor in the concentrative transfer of drugs, carcinogens, and dietary toxins to the milk of mice, cows, and humans.

### Overview

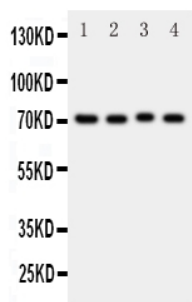
Product Name	Anti-BCRP/ABCG2 Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-BCRP/ABCG2 Antibody catalog # PA1870. Tested in WB applications. This antibody reacts with Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q7TMS5

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of mouse BCRP/ABCG2, different from the related rat sequence by one amino acid.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins

Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Mouse, Rat</p>

## Anti-BCRP/ABCG2 Antibody (PA1870) Images



Anti-BCRP/ABCG2 antibody, PA1870, Western blotting

All lanes: Anti BCRP/ABCG2 (PA1870) at 0.5ug/ml

Lane 1: Rat Liver Tissue Lysate at 50ug

Lane 2: Rat Spleen Tissue Lysate at 50ug

Lane 3: Rat Kidney Tissue Lysate at 50ug

Lane 4: Mouse Spleen Tissue Lysate at 50ug

Predicted bind size: 72KD

Observed bind size: 72KD

## 6 Publications Citing This Product

1. PubMed ID: 23426065, Li R, Wu X, Wei H, Tian S. Oncol Lett. 2013 Mar;5(3):877-883. Epub 2013 Jan 2. Characterization Of Side Population Cells Isolated From The Gastric Cancer Cell Line Sgc-7901.

2. PubMed ID: 26563263, Reversion of malignant phenotypes of human glioblastoma cells by  $\gamma$ -elemene through  $\gamma$ -catenin-mediated regulation of stemness-, differentiation- and epithelial-to-mesenchymal transition-related molecules

3. PubMed ID: 22274587, Duan J, Mansour Hm, Zhang Y, Deng X, Chen Y, Wang J, Pan Y, Zhao J. Int J Pharm. 2012 Apr 15;426(1-2):193-201. Doi: 10.1016/J.ijpharm.2012.01.020. Epub 2012 Jan 17. Reversion Of Multidrug Resistance By Co-Encapsulation Of Doxorubicin And Curcumin ...

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