

## Anti-BCRP/ABCG2 Antibody Picoband®

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 Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-BCRP/ABCG2 Antibody catalog # PA1870. Tested in WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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.
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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	Western blot, 0.1-0.5ug/ml, Mouse, Rat

## Anti-BCRP/ABCG2 Antibody Picoband® (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  $\beta$ -elemene through  $\beta$ -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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