

Anti-BCRP/ABCG2 Antibody Picoband® Fluoro550 Conjugated

Catalog Number: PB9364-Fluoro550

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® Fluoro550 Conjugated |
| Reactive Species | Human, Mouse, Rat |
| Application | Recommended applications are based on the parent unconjugated antibody (IHC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality | Polyclonal G9 |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light. |
| Host | Rabbit |
| Uniprot ID | Q9UNQ0 |

Technical Details

| | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen | A synthetic peptide corresponding to a sequence at the N-terminus of human ABCG2, different from the related mouse sequence by five amino acids, and from the related rat sequence by eight amino acids. |
| Predicted Reactive Species | Hamster |
| Cross Reactivity | No cross reactivity with other proteins. |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Immunogen affinity purified. |

| | |
|---------------------|---------------------------------------------------------------------------|
| Conjugate | Fluoro550 Excitation Wavelength: 562 nm Emission Wavelength: 576 nm |
| Suggested Dilutions | Optimal dilutions should be determined by end users. |

7 Publications Citing This Product

1. PubMed ID: 10.3892/ol.2013.1103, Characterization of side population cells isolated from the gastric cancer cell line SGC-7901
2. 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.
3. PubMed ID: 26563263, Reversion of malignant phenotypes of human glioblastoma cells by α -elemene through β -catenin-mediated regulation of stemness-, differentiation- and epithelial-to-mesenchymal transition-related molecules

Visit bosterbio.com/anti-bcrp-abcg2-picoband-trade-antibody-pb9364-boster.html to see all 7 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-BCRP/ABCG2 Antibody - Fluoro550

For Research Use Only. Not for use in diagnostic procedures.