

Anti-ABCG2/Bcrp Antibody

Catalog Number: PA1387

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-ABCG2/Bcrp Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ABCG2/Bcrp Antibody catalog # PA1387. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	FITC
Application	WB
Clonality	Monoclonal BAM-10
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
Host	Hamster
Uniprot ID	Q9UNQ0

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminal of human ABCG2, identical to the related mouse and rat sequence.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot.

Cross Reactivity	No cross reactivity with other proteins
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/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, Human, Rat, Mouse</p>

Anti-ABCG2/Bcrp Antibody (PA1387) Images



Anti-ABCG2 antibody, PA1387, Western blotting
WB: Rat Cardiac Muscle Tissue Lysate

3 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: 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 ...
3. PubMed ID: 21567100, Qiao B, Johnson Nw, Chen X, Li R, Tao Q, Gao J. Oncol Rep. 2011 Aug;26(2):455-61. Doi: 10.3892/Or.2011.1299. Epub 2011 May 10. Disclosure Of A Stem Cell Phenotype In An Oral Squamous Cell Carcinoma Cell Line Induced By Bmp-4 Via An Epithelial-Mese...

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