Product datasheet

Anti-BCRP/ABCG2 Antibody

Catalog Number: *A00457-2*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-BCRP/ABCG2 Antibody
Gene Name	ABCG2
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human BCRP/ABCG2 recombinant protein (Position: M1-R378).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	65-80KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section IHC1:50-400 ELISA: 1:100-1000 Flow cytometry (FCM): 1-3 μg/1x10^6 cells

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

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. It is mapped on 4q22.1. 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. 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. 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.

Selected Validation Data

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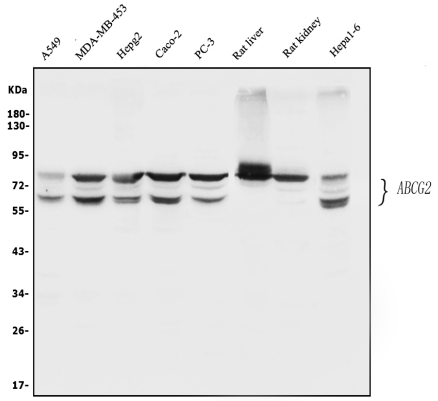

Figure 1. Western blot analysis of anti- BCRP/ABCG2 antibody (A00457-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human A549 whole cell lysates,Lane 2: human MDA-MB-453 whole cell lysates,Lane 3: human HepG2 whole cell lysates,Lane 4: human CACO-2 whole cell lysates,Lane 5: human PC-3 whole cell lysates,Lane 6: Rat liver tissue lysates,Lane 7: Rat kidney tissue lysates,Lane 8: Mouse HEPA1-6 whole cell lysates,Use rabbit anti- BCRP/ABCG2 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for BCRP/ABCG2 at approximately 65-80KD. The expected band size for BCRP/ABCG2 is at 72KD.

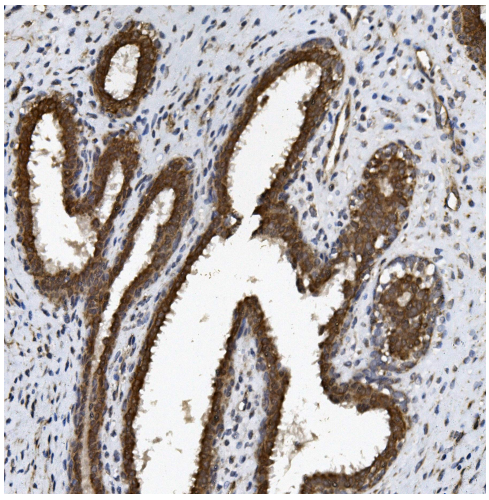

Figure 2.IHC analysis using anti- BCRP/ABCG2 antibody (A00457-2). detected in paraffin-embedded section of human mammary cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

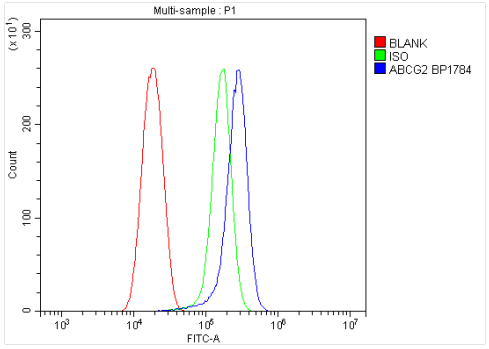

Figure 4.Flow cytometry analysis of SiHa cell (1x106) DyLight 488 conjugated goat anti-rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).