bs-4780R **[Primary Antibody]**

ABCG2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 9429 **SWISS:** Q9UNQ0

Target: ABCG2

Immunogen: KLH conjugated synthetic peptide derived from human ABCG2: 561-655/655. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: An ABC transporter. Allows efflux of Hoechst dye, a property that has been used to separate bone marrow side population cells, which express BCRP/ABCG2. Appears to play a major role in the multidrug resistance phenotype of a specific MCF-7 breast cancer cell line. When overexpressed, the transfected cells become resistant to mitoxantrone, daunorubicin and doxorubicin, display diminished intracellular accumulation of daunorubicin, and manifest an ATP-dependent increase in the efflux of rhodamine 123.
Breast Cancer Resistance Protein (BCRP) is a 70 kDa ATP-Binding Cassette membrane transport protein involved in multidrug resistance. BCRP may be over-expressed in cancer cell lines selected with doxorubicin / verapamil, topotecan or mitoxantrone.

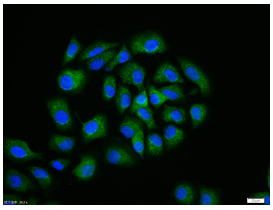
Applications: **Flow-Cyt** (3ug/test)
ICC/IF (1:100)

Reactivity: Human (predicted: Mouse, Rat)

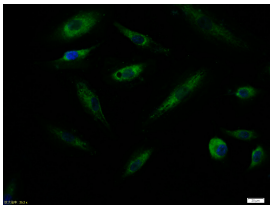
Predicted MW.: 72 kDa

Subcellular Location: Cell membrane

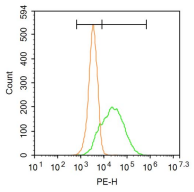
VALIDATION IMAGES



HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (ABCG2) polyclonal Antibody, Unconjugated (bs-4780R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Tissue/cell:A549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Antibody incubation with (ABCG2) polyclonal Antibody, Unconjugated (bs-4780R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control: A549. Primary Antibody (green line): Rabbit Anti-ABCG2 antibody (bs-4780R) Dilution: 3µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 3µg /test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=0]** Lin Xiang. et al.A promising strategy for assessing the uricosuric efect of anti-hyperuricemia candidates: a case study of cafeoylquinic acids extract of Artemisia selengensis Turcz. leaves.FOOD, NUTRITION AND HEALTH. Western Blot ;Human. 10.1007/s44403-025-00013-4