Product name: Anti-BCRP/ABCG2 antibody [BXP-21] ab3380

Description: Mouse monoclonal [BXP-21] to BCRP/ABCG2
Host species: Mouse
Specificity: BXP-21 reacts with an internal epitope of BCRP/ABCG2, a 70 kD transmembrane half-transporter which is involved in Multidrug resistance. This antibody does not react with the human MDR1, MRP1 and MRP2 gene products.

Tested applications: Suitable for: IHC-Fr, IHC-P, ICC/IF, Flow Cyt, ICC

Species reactivity: Reacts with: Human

Immunogen: Recombinant fragment within BCRP/ABCG2 aa 250-400. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements.


General notes: For the WB, please note the subcellular localization and distribution of the BCRP/ABCG2 in Normal Human Tissues: PMID:11309308

We have received mixed feedback from customers, the antibody showed 45-50 kDa band size in A549 and Caco2 cell lines against predicted size of 72kDa. In response to data we have received we no longer guarantee this antibody for western blot. ABCG2 is a multi-pass membrane protein so for troubleshooting we would recommend heating the samples at 60-70°C for 15-20 minutes instead of boiling and as this protein exists as homodimer so complete reduction of samples is highly recommended. In case of any other question please email scientific support team.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As.
Form: Liquid


Storage buffer: pH: 7.3
Constituent: 0.7% BSA

Purity: Tissue culture supernatant

Primary antibody notes: 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.

Clonality: Monoclonal

Clone number: BXP-21

Isotype: IgG2a

The Abpromise guarantee: Our Abpromise guarantee covers the use of ab3380 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
<th>Abreviews</th>
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<tr>
<td>IHC-Fr</td>
<td>[1]</td>
<td>Use at an assay dependent concentration.</td>
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Flow Cyt: Use at an assay dependent concentration. PubMed: 24136221

ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

ICC: Use at an assay dependent concentration. Acetone fixed cells.

Target

Function: Xenobiotic transporter that may play an important role in the exclusion of xenobiotics from the brain. May be involved in brain-to-blood efflux. Appears to play a major role in the multidrug resistance phenotype of several cancer cell lines. 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.

Tissue specificity: Highly expressed in placenta. Low expression in small intestine, liver and colon.

Post-translational modifications
Glycosylation-deficient ABCG2 is normally expressed and functional.

Cellular localization
Cell membrane.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
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