

## Product datasheet for **AM32040SU-N**

### ABCG2 Mouse Monoclonal Antibody [Clone ID: BXP-34]

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Clone Name:           | BXP-34   |
| Applications:         | IF, IHC, WB  |
| Recommended Dilution: | <b>Flow Cytometry:</b> 1/20 (Permeabilisation required).<br><b>Immunocytochemistry:</b> Use 1/20-1/50 on Acetone Fixed Cytospin preparations.<br><b>Immunohistochemistry on Frozen Sections:</b> 1/20 on Acetone Fixed Frozen Sections can be followed by incubation with Rabbit anti-Mouse IgG (1/25) and a Monoclonal mouse APAAP complex (1/50).<br>This antibody <i>BXP-34</i> is unreactive in Western blot and cannot be used on Formaldehyde-Fixed Paraffin-Embedded Human tissues and tumours. |
| Reactivity:           | Human  |
| Host:                 | Mouse  |
| Isotype:              | IgG1   |
| Clonality:            | Monoclonal   |
| Immunogen:            | Immunization with the mitoxanthrone resistant, BCRP overexpressing cell line MCF7 MR.  |
| Specificity:          | This Monoclonal antibody <i>BXP-34</i> reacts with an internal epitope of BCRP, a 70 kD transmembrane half-transporter which is involved in multidrug resistance. It did not cross-react with the Human <i>MDR1</i> , <i>MRP1</i> , <i>MRP2</i> , <i>MRP5</i> gene products.   |
| Formulation:          | State: Liquid<br>Stabilizer: 1% BSA<br>Preservative: 0.09% Sodium Azide  |
| Concentration:        | lot specific   |
| Conjugation:          | Unconjugated   |
| Storage:              | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.   |
| Stability:            | Shelf life: one year from despatch.  |
| Gene Name:            | ATP binding cassette subfamily G member 2 (Junior blood group)   |



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**Database Link:** [Entrez Gene 9429 Human Q9UNQ0](#)

**Background:** The breast cancer resistance protein (BCRP/ABCG2) is a member of the ATP-binding cassette family of drug transporters and confers resistance to various anticancer drugs. The membrane-associated protein encoded by this gene is included in the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the White subfamily. Alternatively referred to as a breast cancer resistance protein, this protein functions as a xenobiotic transporter which may play a major role in multi-drug resistance. It likely serves as a cellular defense mechanism in response to mitoxantrone and anthracycline exposure. Significant expression of this protein has been observed in the placenta, which may suggest a potential role for this molecule in placenta tissue.

**Synonyms:** Breast cancer resistance protein 1, ABCP, MXR