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Breast Cancer Resistance Protein (BCRP,ABCG2), clone BXP-34 Monoclonal Antibody

Catalog No.: MON 9037

Quantity: 1 ml

Specificity
BXP-34 Mab was selected after immunization with the mitoxanthrone resistant, *BCRP* overexpressing cell line MCF7 MR. BXP-34 reacts with an internal epitope of BCRP, a 70 kD transmembrane half-transporter which is involved in multidrug resistance. BXP-34 did not cross-react with the human *MDR1, MRP1, MRP2, MRP5* gene products.

Immunoglobulin type
Murine IgG_1

Use
BXP-34 has potential value for detection of BCRP-mediated drug-resistance in human tumor samples. Immunocytochemistry: use 1:20-50 dil. on acetone fixed cytospin preparations. For immunohistochemistry: BXP-34 (use 1:20) on acetone fixed frozen sections can be followed by incubation with rabbit anti-mouse IgG (1:25, Dako) and a monoclonal mouse APAAP complex (1:50, Dako). BXP-34 cannot be used on formaldehyde-fixed paraffin-embedded human tissues and tumours. Also in Western blot the Mab is unreactive. Flow cytometry: optimal conditions still to be defined.

Presentation
1 ml vials (>200 tests) containing antibody dissolved in 1% BSA containing 0.1% sodium azide. Concentration approx. 250 µg immunoglobulin/ml.

Storage
4 °C. For extended storage, freeze at -20° C.

Literature

1. Doyle LA, Yang WD, Abruzzo LV, Krogmann T, Gao YM, Rishi AK, and Ross, DD. A multidrug resistance transporter from human MCF-7 breast cancer cells [erratum in PNAS USA 1999; 96(5):2569]. Proc.Natl.Acad.Sci.U.S.A., *95*: 15665-15670, 1998.
2. Scheffer GL, Maliepaard M, Pijnenborg ACLM, van Gastelen MA, de Jong MC, Schroeijers AB, van der Kolk DM, Allen JD, Ross DD, van der Valk P, Dalton WS, Schellens JHM, and Scheper RJ. Breast Cancer Resistance Protein is localized at the plasma membrane in mitoxantrone and topotecan resistant cell lines. Cancer Res., *60*: 2589-2593, 2000.

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