

PRODUCT DATA SHEET

Product: Anti-MRP1 (Multi-drug Resistance Associated Protein), Clone MRPr1

Cat. No: MC-160 (0.5 ml)
MC-201 (1 ml)

Specificity:

Monoclonal antibody clone MRPr1 reacts with an internal epitope of MRP1, a 180 - 195 kDa transmembrane transporter protein overexpressed in various human non-P-glycoprotein MDR tumor cell lines. No cross-reaction with human MDR1 and MDR3 gene products (P-glycoproteins) or any other MRP. No cross-reaction with any of the human MRP homologues MRP2-6.

Ig Isotype: Rat IgG2a

Immunogen:

Bacterial fusion protein of MRP containing a segment of 168 amino acids in the amino-proximal half of the protein.

Hybridoma:

Mouse myeloma (SP2/O) x immunized rat (outbred Wistar) lymph node cells

Format:

0.5 ml containing ~250 µg/ml IgG in serum-free culture supernatant with 0.7% BSA and 0.1% NaN₃. The antibody solution was filtered through a 0.22 micron filter.

Culture medium: RPMI-1640, supplemented with Nutridoma-SR. The medium does not contain serum nor added enzymes.

Storage and Stability:

Stable for at least 3 months when stored at 4°C. Aliquot and store at -20°C for up to one year. Avoid repeated freeze/thaws.

Applications and Suggested Dilutions:

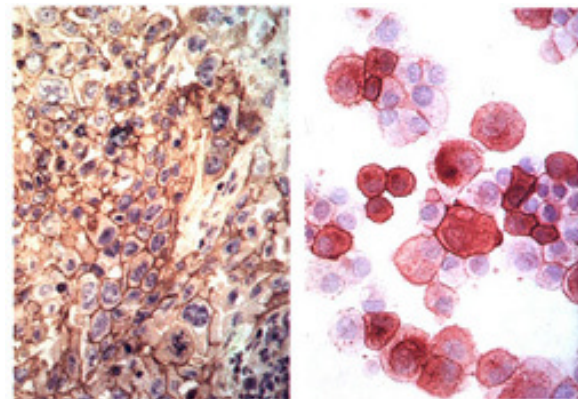
Can be used for the detection of MRP-related non-Pgp MDR in human tumor samples.

- Flow Cytometry: Use at least 1:20 - 1:50 dilution after fixing cells in 10% (v/v) FACS Lysing Solution (BD Biosciences cat. no.

349202) in H₂O, followed by FITC-conjugated anti-rat IgG secondary antibody.

- Immunocytochemistry: Acetone-fixed cell preparation at least 1:20 – 1:50.
- Immunohistochemistry: (Acetone-fixed or frozen sections)- Use at least a 1:20 - 1:50 dilution, followed by incubation with rabbit anti-rat and monoclonal rat APAAP complex. (Formaldehyde-fixed, paraffin-embedded sections)- Use a 1:20 dilution (a 0.01 M citrate pretreatment, 3 x 3 min at 100°C, may increase the performance of MRPr1), followed by incubation with biotinylated goat anti-rat and streptavidin conjugated to HRP.
- Western blot: A 1:20 - 1:50 dilution is recommended.

The optimal dilution for a specific application should be determined by the researcher.



MRP1 staining on frozen section of ovarian carcinoma. MRP1 staining of Adriamycin-selected OLC4/ADR small-cell lung carcinoma cells.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.