



PRODUCT DATA SHEET

Product: Anti-MRP1 mAb, clone MRPm5

Cat. No.: MC-203 (1 mL)

Specificity:

MRPm5 reacts with an internal epitope of Multi-drug Resistance Protein 1 (MRP1, ABCC1), a 180-195 kDa transmembrane transporter protein, which is over-expressed in various human non-P-glycoprotein MDR tumor cell lines. MRPm5 does not cross-react with human *MDR1* and *MDR3* gene products.

Species Reactivity:

Human. Others not tested.

Ig Isotype:

Mouse IgG_{2a}

Immunogen:

Bacterial fusion protein containing amino acids 986-1204 of human MRP1.

Hybridoma:

Mouse myeloma (SP2/0) x immunized rat (outbred Wistar strain) lymph node cells.

Format:

1 mL (>200 tests) monoclonal antibody at ~250 µg IgG/mL in serum-free culture supernatant with protein stabilizer and 0.1% sodium azide. Filtered through a 0.22 µm filter.

Culture medium: RPMI-1640, supplemented with Nutridoma-SR. The medium does not contain serum or added enzymes.

Storage:

Store at 4°C short term, -20°C long term. Aliquot to avoid repeated freeze/thaw cycles.

Applications and Suggested Dilutions:

- Immunocytochemistry: Use at a 1:20-1:50 dilution on acetone or paraformaldehyde (4% in PBS)-fixed cytospin preparations.
- Immunohistochemistry: For acetone-fixed frozen sections use at a 1:20 dilution followed by incubation with a rabbit anti-mouse IgG and a monoclonal mouse APAAP complex. For formaldehyde-fixed paraffin-embedded human tissues and tumors, pre-treat the sample with 0.01 M citric acid (pH 6.0) in distilled water for 10 minutes at 100°C, followed by incubation with MRPm5 at a 1:20 dilution. After washing, the slides can be incubated with biotinylated rabbit anti-mouse IgG and streptavidin conjugated to horseradish peroxidase.
- Flow cytometry: Use at a 1:20-1:50 dilution after fixing cells in 10% (v/v) Lysing solution G in H₂O, followed by anti-mouse-FITC.
- Western blot: Use at a 1:20-1:50 dilution, followed by anti-mouse HRP.

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

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.