



PRODUCT DATA SHEET

Product: Anti-MRP5 mAb, clone M₅I-1

Cat. No.: MC-218 (1 mL)
MC-169 (0.5 mL)

Specificity:

M₅I-1 reacts with an internal epitope of MRP5 (ABCC5), a 190-200 kDa transmembrane protein that is closely related to the multi-drug resistance protein MRP. M₅I-1 does not cross-react with the human *MDR1*, *MRP1*, *MRP2*, or *MRP3* gene products.

Species Reactivity:

Human. Others not tested.

Ig Isotype:

Rat IgG_{2a}

Immunogen:

A bacterial fusion protein containing amino acids 82-168 of human MRP5.

Hybridoma:

Lymph node cells from an immunized rat (Wistar) fused with mouse myeloma (SP2/0) cells.

Format:

1 mL (>200 tests) or 0.5 mL (>100 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: IMDM, supplemented with Nutridoma-NS/SP. The medium does not contain serum or added enzymes.

Storage:

Store at 4°C for short term. Aliquot and store at -20°C for long term. Avoid repeated freeze/thaw cycles.

Applications and Suggested Dilutions:

- Flow cytometry: Optimal conditions still to be determined.
- Immunocytochemistry: Use at a 1:20-1:50 dilution on acetone-fixed cytospin preparations.
- Immunohistochemistry: Use at a 1:20 dilution on acetone-fixed frozen sections, followed by incubation with rabbit anti-rat IgG and a monoclonal rat APAAP complex. Alternatively, after incubation with primary antibody and washing, slides can be incubated with biotinylated rabbit anti-rat IgG and streptavidin conjugated to horseradish peroxidase.
- Western blot: Use at a 1:20-1:50 dilution (with anti-rat-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.