



## PRODUCT DATA SHEET

**Product:** Anti-MRP5 mAb, clone M<sub>5</sub>II-54

**Cat. No.:** MC-219 (1 mL)

**Synonym:**

ABCC5

**Specificity:**

M<sub>5</sub>II-54 reacts with an internal epitope of human MRP5, a 190 - 200 kDa transmembrane protein that is closely related to the multi-drug resistance protein MRP. M<sub>5</sub>II-54 does not cross-react with the human MDR1, MRP1, MRP2, or MRP3 gene products.

**Species Reactivity:**

Human. Others not tested.

**Ig Isotype:**

Rat IgG<sub>2a</sub>

**Immunogen:**

A bacterial fusion protein containing amino acids 722-910 of human MRP5.

**Hybridoma:**

Lymph node cells from an immunized rat fused with SP2/O mouse myeloma cells.

**Format:**

1 mL (> 200 tests) in serum-free culture supernatant at a concentration of 250 µg Ig/mL (concentration by ELISA), with 0.1% sodium azide and protein stabilizer. Sample has been filtered through a 0.22 µm filter.

**Culture Medium:**

IMDM supplemented with Nutridoma-NS/SP. 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 defined.
- Immunocytochemistry: Use a 1:20 to 1:50 dilution on acetone-fixed cytospin preparations.
- Immunohistochemistry: Use a 1:20 dilution on acetone-fixed frozen sections, followed by incubation with rabbit anti-rat IgG and 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 a 1:20 to 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.