



## PRODUCT DATA SHEET

**Product:** Anti-MRP1 mAb, clone QCRL-2

**Cat. No.:** MC-232 (1 mL)

**Specificity:**

QCRL-2 reacts with a conformation-dependent internal epitope of MRP1, a 190 kDa trans-membrane phosphoglycoprotein over-expressed in various human multi-drug resistant tumor cell lines. QCRL-2 inhibits ATP-dependent MRP1 transport activity in inside-out membrane vesicles and its epitope has been localized to the first nucleotide-binding domain of MRP1 between amino acids 617 and 858. It does not cross-react with human *MDR1* and *MDR3* gene products.

**Species Reactivity:**

Human. May cross-react with monkey, mouse and rat tissues. Other species not tested.

**Ig Isotype:**

Mouse IgG<sub>2b</sub>

**Immunogen:**

Human MRP1

**Hybridoma:**

The hybridoma cell line was obtained by fusion of SP2/O mouse myeloma cells with spleen cells from a mouse immunized with non-denatured membranes prepared from the human small cell lung cancer cell line, H69AR, which highly over-expresses MRP1.

**Format:**

1 mL of purified monoclonal antibody at 40 µg/mL with protein stabilizer and 0.1% sodium azide in phosphate buffered saline, 0.22 µM filtered.

**Storage:**

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

**Applications and Suggested Dilutions:**

- Flow cytometry: Use at a dilution of 1:20-1:40 after fixing cells in 0.5% paraformaldehyde, followed by fluorochrome conjugated anti-mouse reagent.
- Immunocytochemistry: Use on paraformaldehyde (0.5% in PBS) fixed cytospin preparations.
- Immunoprecipitation
- Functional Activity: Transport inhibition
- Dot Blot: Non-denatured only, use at a 1:1,000 dilution.
- Western blot: **NOT REACTIVE**

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.