



## PRODUCT DATA SHEET

**Product:** Anti-MRP1, clone QCRL-4

**Cat. No.:** MC-234 (1 mL)

**Specificity:**

QCRL-4 reacts with a conformation-dependent internal epitope of MRP1, a 190 kDa trans-membrane phosphoglycoprotein overexpressed in various human multidrug resistant tumor cell lines. QCRL-4 inhibits the ATP-dependent transport activity of MRP1 in inside-out membrane vesicles and its epitope has been localized to the second nucleotide binding domain of MRP1 between amino acids 1294 and 1531. QCRL-4 does not cross-react with human *MDR1* and *MDR3* gene products.

**Species Reactivity:**

Human. May crossreact with monkey, mouse and rat. Others not tested.

**Ig Isotype:**

Mouse IgG<sub>1</sub>.

**Immunogen:**

Non-denatured membranes prepared from the human small cell lung cancer cell line H69AR, which highly overexpresses MRP1.

**Hybridoma:**

The hybridoma cell line was obtained by fusion of SP2/O mouse myeloma cells with spleen cells from an immunized mouse.

**Format:**

1 mL containing purified antibody (40 µg/mL IgG<sub>1</sub>) with 0.7% BSA and 0.1% NaN<sub>3</sub> in PBS, 0.22 µM filtered.

**Storage:**

Store at 4°C for short term. For extended storage, freeze aliquots at -20°C.

**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
- Western Blot: NOT REACTIVE
- Dot Blot: Non-denatured only, use at 1:10,000 dilution.
- Functional Activity: Transport inhibition.

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.