



## PRODUCT DATA SHEET

**Product:** Anti-MRP1, Clone QCRL-3

**Cat. No:** MC-233 (1 ml)

**Background:**

MRP1 is a 190 kDa transmembrane phosphoglycoprotein overexpressed in various human multidrug resistant tumor cell lines. <sup>1,2,3</sup>

**Specificity:**

QCRL-3 reacts with a conformation-dependent internal epitope of MRP1. It does not cross-react with human MDR1 and MDR3 gene products nor with murine MRP1. Cross reacts with monkey, but does not cross react with mouse or rat.

**Ig Isotype:** IgG<sub>2a</sub>, 40 µg

**Epitope:**

The epitope has been localized to the first nucleotide binding domain of MRP1 between amino acids 617 and 932. <sup>5</sup>

**Hybridoma:**

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

**Format:**

QCRL-3 was raised against the non-denatured membranes prepared from the human small cell lung cancer cell line, H69AR, which highly overexpressed MRP1. <sup>1,2</sup> QCRL-3 inhibits the ATP-dependent transport activity of MRP1 in inside-out membrane vesicles. <sup>4</sup>

**Storage and Stability:**

Store at 4°C short term. Store at -20°C long term.

**Applications and Suggested Dilutions:**

- Flow Cytometry: Use at a dilution of 1:20 to 1:50. Fix cells in 0.5% paraformaldehyde, followed by anti-mouse FITC.
- Immunocytochemistry: May be used on paraformaldehyde (0.5% in PBS) fixed cytospin preparations.
- Immunoprecipitation
- Western blotting: **Does not work.**
- 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.