



PRODUCT DATA SHEET

Product: Anti-MRP1 mAb, clone QCRL-1

Cat. No.: MC-231 (1 mL)

Specificity:

MRP1 is a 190 kDa transmembrane phosphoglycoprotein that is overexpressed in various human multi-drug resistant tumor cell lines. QCRL-1 was raised against non-denatured membranes prepared from the human small cell lung cancer cell line, H69AR, which highly overexpresses MRP1. QCRL-1 does not cross-react with the human *MDR1*, *MDR3*, *MRP2*, *MRP3*, *MRP4*, *MRP5*, *MRP6* or mouse *mrp1* gene products.

Species Reactivity:

Human. May cross-react with monkey or dog. Does NOT cross-react with mouse or rat. Others not tested.

Ig Isotype:

Mouse IgG₁

Epitope:

QCRL-1 reacts with a defined linear internal heptapeptide epitope (⁹¹⁸SSYSGDI⁹²⁴) of MRP1.

Hybridoma:

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

Format:

1 mL containing purified antibody at 20 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 extended storage, freeze aliquots at -20°C.

Applications and Suggested Dilutions:

- Flow Cytometry: Use at a dilution of 1:20 after fixing cells in 0.5% paraformaldehyde in PBS for 30 minutes, followed by addition of anti-mouse FITC. Blocking and wash solutions should contain 0.1% Tween (unacceptable background with Triton).
- Immunocytochemistry: Use at a dilution of 1:20-1:50 on paraformaldehyde (0.5% in PBS)-fixed or 70% methanol-fixed cytospin preparations.
- Immunohistochemistry: May be used on formalin-fixed paraffin-embedded sections following antigen retrieval by microwave heating in citrate.
- Immunoprecipitation.
- Western Blot: Use at 0.02 - 0.2 µg/mL. Use a HRPase-conjugated anti-mouse IgG (H+L) F(ab')₂ fragment secondary.

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.