



PRODUCT DATA SHEET

Product: Anti-cMOAT/MRP2, human, Clone M₂I-4

Cat. No: MC-163 (0.5 ml)
MC-205 (1 ml)

Specificity:

Reacts with an internal epitope of human cMOAT/MRP2, a 170 - 180 kDa transmembrane protein known as the canalicular multi-organic anion transporter, which is absent in humans with the Dubin-Johnson syndrome, an autosomal recessive liver disorder characterized by chronic conjugated hyperbilirubinemia. cMOAT/MRP2 is closely related to the multidrug resistance-related protein MRP, and cMOAT/MRP2 is overexpressed in a subset of cisplatin-resistant cell lines. Reacts with human MRP2. Does not crossreact with human MDR1, MRP1, MRP3, and MRP5 gene products.

Species Reactivity:

Human. Does not react with rat. Others not tested.

Ig Isotype: Mouse IgG₁

Immunogen:

Bacterial fusion protein of cMOAT/MRP2 containing aa 215 - 310 of the protein.

Hybridoma:

Mouse myeloma (SP2/O) x immunized mouse (Balb/c) lymph node cells

Format:

0.5 ml (>100 tests) at ~250 µg IgG/ml in serum-free culture supernatant with 0.7% BSA and 0.1% NaN₃. Filtered through a 0.22 micron filter.

Culture medium: RPMI-1640, supplemented with Nutridoma-SR. The medium does not contain serum nor 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:

Can be used for the detection of MRP2-mediated drug resistance in human tumor samples.

- Flow Cytometry: Optimal conditions to be determined.
- Immunocytochemistry: Acetone fixed cyto-spin preparations- Use 1:20 - 1:50 dilution.
- Immunohistochemistry: Acetone-fixed frozen sections of human tissues- Use a 1:20 dilution. Follow by incubating with rabbit anti-mouse IgG and a monoclonal mouse APAAP complex. Alternatively, slides can be incubated with biotinylated rabbit anti-mouse IgG and streptavidin conjugated to horseradish peroxidase.
- Western blotting: Use a 1:20 - 1:50 dilution and anti-mouse 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.