



## PRODUCT DATA SHEET

**Product:** Anti-MRP2/cMOAT mAb, clone M<sub>2</sub>III-5

**Cat. No.:** MC-267 (1 mL)

**Specificity:**

M<sub>2</sub>III-5 reacts with an internal epitope of MRP2 (ABCC2), a 190-200 kDa transmembrane protein earlier known as the canalicular multi-organic anion transporter (cMOAT), which is absent in humans with the Dubin-Johnson syndrome, an autosomal recessive liver disorder characterized by chronic conjugated hyperbilirubinemia. MRP2 is a member of the MRP family of multidrug resistance related proteins. MRP2 is overexpressed in a subset of cisplatin-resistant cell lines. M<sub>2</sub>III-5 does not cross-react with the human *MDR1* P-gp, *MRP1*, *MRP3* or *MRP5* gene products.

**Species Reactivity:**

Rat, mouse and human. Others not tested.

**Ig Isotype:**

Mouse IgG<sub>2b</sub>

**Immunogen:**

A fusion protein of the bacterial maltose-binding protein and rat Mrp2, containing the 202-amino acid COOH-terminal end of the transporter protein.

**Format:**

1 mL (>200 tests) monoclonal antibody at ~250 µg IgG/mL in serum-free culture supernatant with protein stabilizer and 0.1% sodium azide.

**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:**

- Immunocytochemistry: Use at a 1:20-1:50 dilution on acetone-fixed cytospin preparations.
- Immunohistochemistry: Use at a 1:20 dilution on acetone-fixed frozen sections, followed by incubation with rabbit anti-mouse IgG and a monoclonal mouse APAAP complex. M<sub>2</sub>III-5 can also be used on formaldehyde-fixed paraffin-embedded human tissues and tumors, after pretreatment with 0.01 M citric acid (pH 6.0) in distilled water at 100°C for 3 x 5 minutes. After incubation with M<sub>2</sub>III-5 at a 1:20 dilution and washing, slides can be incubated with biotinylated rabbit anti-mouse IgG and streptavidin conjugated to horseradish peroxidase.
- Western blot: Use at a 1:20-1:50 dilution, followed by anti-mouse HRP.
- Flow cytometry: Optimal conditions still to be determined.

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.