

## Multidrug-resistance related protein, MRP5, clone M5I1-54 Monoclonal Antibody

**Catalog No.:** MON 9034

**Quantity:** 1 ml

### Specificity

M5I1-54 reacts with an internal epitope of MRP5, a 190-200 kD transmembrane protein that is closely related to the multidrug resistance protein MRP. M5I1-54 was raised against a bacterial fusion protein of MRP5, containing amino acids 82-168 of the protein. M5I1-54 does not cross-react with the human *MDR1*, *MRP1*, *MRP2* or *MRP3* gene products

### Immunoglobulin type

Rat IgG2a

### Use

M5I1-54 has potential value for detection of MRP5-mediated drug-resistance in human tumor samples. Immunocytochemistry: use 1:20-1:50 dil. on acetone fixed cytospin preparations. For immunohistochemistry: use 1:20 on acetone fixed frozen sections. Western blotting: use 1:20-1:50 dil, and anti mouse HRP. Flow cytometry: optimal conditions still to be defined.

### Presentation

1 ml serum-free tissue culture supernatant with approximately 250 µg immunoglobulin/ml, 0.7% BSA and 0.1% sodium azide. Sufficient for at least 200 tests. Cat.nr. MON 9034.

### Storage

Store at 4°C for short term (3 months) and at -20°C for extended storage.

### Literature

- Kool et al. Analysis of expression of cMOAT (MRP2), MRP3, MRP4 and MRP5, homologs of the multidrug resistance associated protein gene (MRP1), in human cancer cell lines  
*Cancer res.* 57: 3537-3547, 1997
- Scheffer et al. Specific detection of multidrug resistance proteins MRP1, MRP2, MRP3, MRP5 and MDR3 p-Glycoprotein with a panel of monoclonal antibodies. *Cancer Research*, in press, 2000.



**Safety information about the cell lines and culture media used in the production of the Mab.**

**Mab producing cells:**

The hybridoma cell line was obtained by fusion of lymph node cells from an immunized mouse (Balb/C) with SP2/0 mouse myeloma cells.

**Culture medium:**

RPMI-1640 (Gibco, Paisley, Scotland UK), supplemented with Nutridoma-SR (Boehringer, Indianapolis, USA). The medium does not contain serum nor added enzymes. The antibody solution has been filtered through a 0.22 micron filter.

**NOTE:**

This monoclonal antibody has been produced in a clinical laboratory in which no animal viruses are being studied or cultured.

**LIMITATIONS:**

This is a laboratory reagent, not to be administered to humans or animals nor used for any drug purpose.

FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.

