

Multidrug-resistance related protein, MRP5, Clone M5I-1 Monoclonal Antibody

Catalog No: MON9033

Quantity: 1ml

Specificity:

M5I-1 reacts with an internal epitope of MRP5, a 190-200 kD transmembrane protein that is closely related to the multidrug resistance protein MRP. M5I-1 was raised against a bacterial fusion protein of MRP5, containing amino acids 82-168 of the protein. M5I-1 does not cross-react with the human *MDR1*, *MRP1*, *MRP2* or *MRP3* gene products.

Immunoglobulin type:

Rat IgG2a

Use:

M5I-1 has potential value for detection of MRP5-mediated drug-resistance in human tumor samples. Immunocytochemistry: use 1:20-50 dil. on acetone fixed cytospin preparations. For immunohistochemistry: M5I-1 (use 1:20) on acetone fixed frozen sections can be followed by incubation with rabbit anti-rat Ig (1:25, Dako) and a monoclonal rat APAAP complex (1:50, Dako). Alternatively, after incubation with M5I-1 (use 1:20) and washing, slides can be incubated with biotinylated rabbit anti-rat Ig (1:100, Jackson, West Grove) and streptavidin conjugated to horseradish peroxidase (1:500, Zymed, San Francisco, CA). Flow cytometry: optimal conditions still to be defined. Western blotting: use 1:20-50 dil. and anti-rat-HRP.

Presentation:

1 ml vial (>200 tests) containing antibody in serumfree culture supernatant, with 0.7% BSA (Roche, Mannheim, Germany) and 0.1% sodium azide. Concentration 250 µg immunoglobulin/ml (by ELISA).

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 rat (Wistar) with SP2/0 mouse myeloma cells.

Culture medium:

IMDM (Gibco, Paisley, Scotland UK), supplemented with Nutridoma-NS/SP (Boehringer, Indianapolis, USA), without serum or added enzymes. Antibody containing supernatant has been concentrated and 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.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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