

Product datasheet for **AM32044SU-N**

MRP5 (ABCC5) Rat Monoclonal Antibody [Clone ID: M5I-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M5I-1
Applications:	IF, IHC, WB
Recommended Dilution:	Western blotting: Use 1/20-1/50 dilution and anti Rat -HRP Immunocytochemistry: Use 1/20-1/50 on acetone fixed cytospin preparations. Immunohistochemistry on Acetone Fixed Frozen Sections: 1/20 followed by incubation with Rabbit anti-Rat Ig (1/25) and a monoclonal Rat APAAP complex (1/50). Alternatively, after incubation with <i>M5I-1</i> (1/20) and washing, slides can be incubated with biotinylated Rabbit anti-Rat IgG (1/100) and streptavidin conjugated to Horseradish Peroxidase (1/500).
Reactivity:	Human
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Bacterial fusion protein of MRP5, containing amino acids 82-168 of the protein.
Specificity:	This Monoclonal antibody <i>M5I-1</i> reacts with an internal epitope of MRP5, a 190-200 kD transmembrane protein that is closely related to the multidrug resistance protein MRP. It does not cross-react with the Human <i>MDR1</i> , <i>MRP1</i> , <i>MRP2</i> or <i>MRP3</i> gene products.
Formulation:	State: Supernatant State: Serum Free Culture Supernatant Stabilizer: 0.7% BSA Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ATP binding cassette subfamily C member 5



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Database Link: [Entrez Gene 10057 Human O15440](#)

Background: MRP5 (190-200 kDa) is closely related to MRP4, both lacking the first five membrane spanning regions. MRP5 is a GS-X multi specific organic anion pump (nucleotide analogs). MRP5 may transport DNP-GS and may be inhibited by certain inhibitors of organic anion transport (sulfapyrazone). MRP5 may also transport organic anions with the anionic moiety of phosphate/phosphonate group, a function which provides the ability to resist against anti cancer drugs 6-MP and thioguanine as well as the anti-HIV drug PMEA.

Synonyms: Multidrug resistance-associated protein 5, pABC11, SMRP, MOAT-C

Note: **Mab producing cells:**
The hybridoma cell line was obtained by fusion of lymph node cells from an immunized rat (Wistar) with SP2/O 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.