

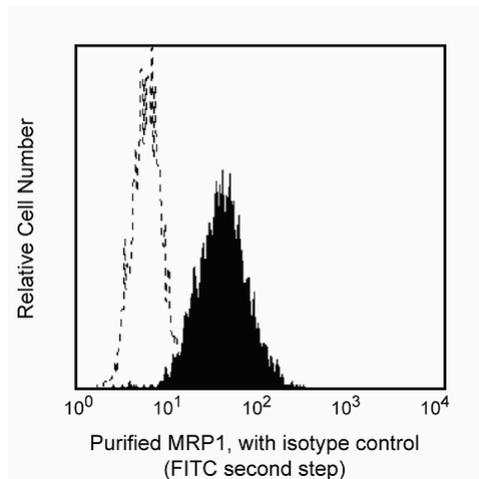
Technical Data Sheet

Purified Mouse Anti-Human MRP1**Product Information**

Material Number:	557594
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	QCRL-3
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Reacts with an intracellular epitope of the multidrug resistance protein (MRP1). MRP1 is a 190 kDa integral membrane phosphoglycoprotein, member of the ATP-binding cassette transporter proteins, overexpressed in some drug-selected resistant cell lines and has been shown to cause multidrug resistance in transfected cells. Clone QCRL-3 was generated using non-denatured membranes from H69AR, an MRP1-overexpressing, multidrug resistant, drug-selected cell line. Its epitope has been localized to the first nucleotide binding domain of MRP1 between amino acids 617 and 932. QCRL-3 does not cross-react with human MDR1 or MDR3 gene products, nor with murine MRP1. It is reported that mAb QCRL-3 inhibits the ATP-dependent transport activity of MRP1 in inside-out membrane vesicles.



Profile of human MRP1 (clone QCRL-3) reactivity on fixed, permeabilized H69AR cell line analyzed by flow cytometry. The cell line was fixed and permeabilized with BD Cytotfix/Cytoperm™ Cat. No. 554714. Second step staining with Cat. No. 555988.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at 4° C.

Application Notes**Application**

Intracellular staining (flow cytometry)	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555571	Purified Mouse IgG2a, κ Isotype Control	0.1 mg	G155-178
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal
554714	BD Cytotfix/Cytoperm Fixation/Permeablization Kit	250 tests	(none)

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

- Cole SP, Bhardwaj G, Gerlach JH, et al. Overexpression of a transporter gene in a multidrug-resistant human lung cancer cell line. *Science*. 1992; 258(5088):1650-1654.(Biology)
- Hipfner DR, Gaudie SD, Deeley RG, Cole SP. Detection of the M(r) 190,000 multidrug resistance protein, MRP, with monoclonal antibodies. *Cancer Res*. 1994; 54(22):5788-5792.(Biology)
- Hipfner DR, Mao Q, Qiu W, et al. Monoclonal antibodies that inhibit the transport function of the 190-kDa multidrug resistance protein, MRP. Localization of their epitopes to the nucleotide-binding domains of the protein. *J Biol Chem*. 1999; 274(22):15420-15426.(Biology)
- Loe DW, Almquist KC, Deeley RG, Cole SP. Multidrug resistance protein (MRP)-mediated transport of leukotriene C4 and chemotherapeutic agents in membrane vesicles. Demonstration of glutathione-dependent vincristine transport. *J Biol Chem*. 1996; 271(16):9675-9682.(Biology)