

## InVivoMAb anti-human/monkey MDR-1 (CD243)



### Lot Specific Information

<b>Lot Number:</b>	Lot Specific*
<b>Volume:</b>	Lot Specific*
<b>Concentration:</b>	Lot Specific* (generally 4 to 11 mg/ml) *
<b>Total Protein:</b>	Lot Specific*

\*This information will be noted on the certificate of analysis that ships with this product.

### Product Information

<b>Catalog Number:</b>	<b>BE0340</b>
<b>Clone:</b>	<b>UIC2</b>
<b>Isotype:</b>	Mouse IgG2a, κ
<b>Recommended Isotype Control(s):</b>	InVivoMAb mouse IgG2a isotype control, unknown specificity
<b>Recommended Dilution Buffer:</b>	InVivoPure pH 7.0 Dilution Buffer
<b>Immunogen:</b>	3T3 fibroblasts transfected with human CD243 cDNA <i>in vivo</i> MDR-1 blocking/depletion in xenogeneic murine tumor models <i>in vitro</i> MDR-1 blocking Immunohistochemistry (paraffin)
<b>Reported Applications:</b>	
<b>Formulation:</b>	PBS, pH 7.0 Contains no stabilizers or preservatives
<b>Endotoxin:</b>	<2EU/mg (<0.002EU/μg) Determined by LAL gel clotting assay
<b>Purity:</b>	>95% Determined by SDS-PAGE
<b>Sterility:</b>	0.2 μM filtered
<b>Production:</b>	Purified from tissue culture supernatant in an animal free facility
<b>Purification:</b>	Protein A
<b>RRID:</b>	
<b>Molecular Weight:</b>	150 kDa

### Description

The UIC2 monoclonal antibody reacts with an extracellular epitope of human and monkey (African Green) multidrug resistance protein 1 (MDR-1) also known as CD243, P-glycoprotein, and ABCB1. MDR-1 is a 170-180 kDa transmembrane glycoprotein that is expressed by epithelial and endothelial cells, and at low levels by T cells, B cells, NK cells, and hematopoietic stem cells. It is thought to be expressed at high levels by multidrug resistant (MDR) tumor cells. MDR-1 is as an ATP-dependent efflux pump for a large variety of molecules and drugs. This efflux activity has been suggested to lead to resistance to chemotherapy drugs. The UIC2 antibody has been reported to inhibit the efflux of MDR-1 substrates from MDR cells and increase the cytotoxicity of certain drugs in xenogeneic murine tumor models. The UIC2 antibody does not cross-react with mouse MDR-1.

### Shelf-life and Storage

Store at the stock concentration at 4°C. **Do not freeze.**

All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at [bxcell.com/faqs](https://bxcell.com/faqs).

### Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

### Application References

For a complete list of references, visit <https://bxcell.com/product/invivomab-anti-human-monkey-mdr-1-cd243/#references> or scan the QR code below.

### Bio X Cell, Inc.

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