Technical Data Sheet

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

Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at https://bioxcell.com/terms-and-conditions.

Lot Specific Information

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

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

Product Information

Catalog Number:	**BE0340**
Clone:	**UIC2**
Isotype:	Mouse IgG2a, κ
Recommended Isotype Control(s):	InVivoMAb mouse IgG2a isotype control, unknown specificity
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	3T3 fibroblasts transfected with human CD243 cDNA
Reported Applications:	*in vivo* MDR-1 blocking/depletion in xenogeneic murine tumor models *in vitro* MDR-1 blocking Immunohistochemistry (paraffin)
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤1EU/mg (≤0.001EU/μg) Determined by LAL gel clotting assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm filtration
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein A
RRID:	AB_2894760
Molecular Weight:	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.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**
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 https://bioxcell.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://bioxcell.com/be0340?bxcs=9k1b3a#tab_references or scan the QR code below.

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