

Technical Data Sheet

InVivoMAb anti-mouse CD38



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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 Website Link: <https://bioxcell.com/invivomab-anti-mouse-cd38-be0498>

Product Information

Catalog Number: BE0498
Clone: Ab90
Isotype: Rat IgG2a, κ
Recommended Isotype Control(s): InVivoMAb rat IgG2a isotype control, anti-trinitrophenol
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: Mouse bone marrow pre-B cells
Reported Applications: *in vivo* CD38 stimulation
in vitro CD38 stimulation
Flow cytometry
Immunofluorescence
Immunohistochemistry (frozen)
Antibody-drug conjugate synthesis
Functional assays
Immunoprecipitation
ELISA
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: $\leq 1\text{EU/mg}$ ($\leq 0.001\text{EU}/\mu\text{g}$)
Determined by LAL assay
Purity: $\geq 95\%$
Determined by SDS-PAGE
Sterility: $0.2\ \mu\text{m}$ filtered
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein G
RRID:
Molecular Weight: 150 kDa

Description

The Ab90 monoclonal antibody (also referred to as 90 or clone 90) reacts with mouse CD38. CD38 is a 42 kDa type II transmembrane glycoprotein and it is also known as CD38 antigen, T10, I-19, ADPRC1, and Cd38-rs1. CD38 is an ADP-ribosyl cyclase/hydrolase expressed on immature and mature B cells, both resting and activated, as well as NK cells and a subset of T cells. Unlike human CD38, the expression of murine CD38 is downregulated on germinal center B cells and plasma cells. CD38 is a multifunctional protein involved in NAD homeostasis, and by functioning as both a cyclase and a hydrolase, CD38 mediates lymphocyte activation, adhesion, and the metabolism of NAADP and cADPR (calcium-mobilizing second messengers). CD38 also acts as a receptor of CD31 on endothelial cells, promoting lymphocyte activation, proliferation, and migration across the endothelial barrier. CD38 regulates crucial dendritic cell functions acquired at the mature stage, such as CCL21-driven migration, survival, and Th1-polarizing activity. Agonistic CD38 antibodies are a

valuable tool for B cell and melanoma research. The Ab90 antibody is known to cause internalization and stimulation of mouse CD38.

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/invivomab-anti-mouse-cd38-be0498?utm_source=cr9k1b#tab_references or scan the QR code below.



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