



**InVivoMAb anti-mouse CD38**

**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>BE0317</b>
<b>Clone:</b>	<b>NIMR5</b>
<b>Isotype:</b>	Rat IgG2a, κ
<b>Recommended Isotype Control(s):</b>	InVivoMAb rat IgG2a isotype control, anti-trinitrophenol
<b>Recommended Dilution Buffer:</b>	InVivoPure pH 7.0 Dilution Buffer
<b>Immunogen:</b>	BCL1 plasma membrane glycoproteins <i>in vivo</i> CD38 stimulation <i>in vitro</i> CD38 stimulation <i>in vitro</i> B cell activation Immunofluorescence ELISA Flow cytometry
<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 G
<b>RRID:</b>	AB_2754555
<b>Molecular Weight:</b>	150 kDa

**Description**

The NIMR5 monoclonal antibody reacts with mouse CD38 a 42 kDa type II transmembrane glycoprotein. CD38 is expressed on immature and mature resting and activated B cells as well as NK cells and a subset of T cells. CD38 expression is down-regulated on mouse germinal center B cells and plasma cells. CD38 is a multifunctional protein involved in NAD homeostasis and in the generation of the second messengers ADPR and cyclic ADPR which are involved in intracellular calcium signaling. Antibodies against CD38 have been shown to be highly efficacious in the treatment of multiple myeloma. The NIMR5 antibody is reported as an agonistic antibody and has been shown to induce B cell proliferation, protect B cells from apoptosis, and slow disease progression in tumor-bearing mice.

**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 [bxc.com/faqs](https://bxc.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://bxc.com/product/invivomab-anti-mouse-cd38/#references> or scan the QR code below.

**Bio X Cell, Inc.**

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