Technical Data Sheet

RecombiMAb anti-mouse CD38

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:	**CP052**
Clone:	**NIMR5-CP052**
Isotype:	Mouse IgG2a, κ
Recommended Isotype Control(s):	InVivoPlus mouse IgG2a isotype control, unknown specificity
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	BCL1 plasma membrane glycoproteins
Reported Applications:	*in vivo* CD38 stimulation* *in vitro* CD38 stimulation* *in vitro* B cell activation* Immunofluorescence* ELISA* Flow cytometry* *Reported for the original rat IgG2a NIMR5 antibody
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤0.5EU/mg (≤0.0005EU/μg) Determined by LAL gel clotting assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm filtration
Production:	Purified from HEK293 cell supernatant in an animal-free facility
Purification:	Protein G
Aggregation:	<5% Determined by SEC
RRID:	
Molecular Weight:	150 kDa

Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

Description

The NIMR5-CP052 monoclonal antibody is a chimeric version of the original NIMR5 antibody. The variable domain sequences are identical to the original NIMR5 but the constant region sequences have been switched from rat IgG2a to mouse IgG2a. The NIMR5-CP052 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 original 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.

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/cp052?bxcs=9k1b3a#tab_references or scan the QR code below.

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