

Technical Data Sheet

RecombiMab anti-mouse/human CD44 (LALA-PG)



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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 Website Link: <https://bioxcell.com/recombimab-anti-mouse-human-cd44-lala-pg-cp238>

Product Information

Catalog Number: CP238
Clone: IM7-CP238
Isotype: Mouse IgG2a (LALA-PG), κ
Recommended Isotype Control(s): RecombiMAB mouse IgG2a (LALA-PG) isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Mutations: LALA-PG
Immunogen: Dexamethasone-induced myeloid leukemia M1 cells
Reported Applications: Western blot
in vivo CD44 neutralization*
in vitro CD44 neutralization*
*Reported for the original rat IgG1 IM7 antibody
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: ≤ 0.5 EU/mg (≤ 0.0005 EU/ μ g)
Determined by LAL assay
Purity: $\geq 95\%$
Determined by SDS-PAGE
Sterility: 0.2 μ m filtration
Production: Purified from mammalian cell supernatant in an animal-free facility
Purification: Protein G
Aggregation: $< 5\%$
Determined by SEC
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 IM7-CP238 monoclonal antibody is a recombinant, chimeric version of the original IM7 antibody. The variable domain sequences are identical but the constant region sequences have been switched from rat IgG2b to murine IgG2a for use in murine models. Additionally, the constant region includes the Fc silencing mutation LALA-PG, preventing Fc-dependent cellular depletion, phagocytosis, and complement activation. Fc-silencing enables selective blockade of CD44 function while

avoiding Fc-mediated killing or unintended modulation of CD44-expressing immune and healthy cells. Species-matched chimeric antibodies support repeat and long-term dosing studies by reducing anti-drug antibody responses that can accelerate antibody clearance, compromise sustained target neutralization and confound interpretation of in vivo efficacy and safety findings. The highly controlled sequence and lack of genetic drift in recombinant antibodies provide more reliable and reproducible results over hybridoma derived antibodies. The IM7 monoclonal antibody reacts with human and mouse CD44 also known as Hermes, HECAM, and Pgp-1. CD44 is an 80-95 kDa glycoprotein that is expressed on all leukocytes, endothelial cells, hepatocytes, and mesenchymal cells. As an adhesion molecule, CD44 participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, and hematopoiesis. CD44 is a receptor for hyaluronic acid and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs) and is involved in tumor metastasis. Targeting CD44 has been shown to reduce the malignant activities of various neoplasms. Interestingly, high levels of the adhesion molecule CD44 on leukemic cells are essential to generate leukemia. IM7-CP238 neutralizes CD44 in vivo and is useful for CD44 blockade in mouse disease models while minimizing Fcγ receptor engagement, complement activation, and depletion of broadly CD44-expressing immune or stromal populations.

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/recombimab-anti-mouse-human-cd44-lala-pg-cp238?utm_source=cr9k1b#tab_references or scan the QR code below.



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