Technical Data Sheet

InVivoSIM anti-human GPNMB (Glembatumumab Biosimilar)

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:	**SIM0066**
Clone:	**Glembatumumab**
Isotype:	Human IgG2, κ
Recommended Isotype Control(s):	RecombiMAb human IgG2 isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Human GPNMB
Reported Applications:	Functional assays Flow cytometry ELISA Immunohistochemistry Western blot
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 cell culture supernatant in an animal-free facility
Purification:	Protein A
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

This non-therapeutic biosimilar antibody utilizes the same variable regions as the therapeutic antibody Glembatumumab, making it ideal for research use. Glembatumumab is a fully human IgG2 monoclonal antibody that targets glycoprotein non-metastatic melanoma protein B (GPNMB), a transmembrane glycoprotein overexpressed in various cancers, including triple-negative breast cancer (TNBC), melanoma, glioblastoma, and osteosarcoma. GPNMB is associated with tumor progression, metastasis, and poor prognosis. In therapeutic applications, Glembatumumab is conjugated to the cytotoxic

agent monomethyl auristatin E (MMAE) to form the antibody-drug conjugate (ADC) Glembatumumab vedotin. This ADC binds to GPNMB-expressing tumor cells, is internalized, and releases MMAE intracellularly, leading to cell death. However, this biosimilar is unconjugated and formulated for non-therapeutic research use only, making it an excellent tool for studying GPNMB biology, tumor immunology, and the development of GPNMB-targeted therapies.

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

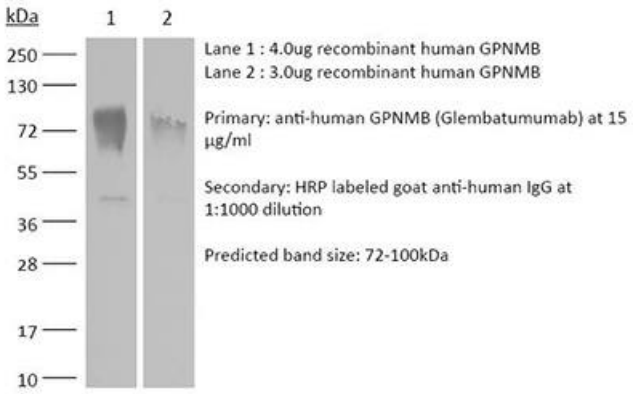
Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/sim0066?bxcs=9k1b3a#tab_references or scan the QR code below.

Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



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