Technical Data Sheet

InVivoSIM anti-human CD79b (Polatuzumab 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:	**SIM0060**
Clone:	**Polatuzumab**
Isotype:	Human IgG1, κ
Recommended Isotype Control(s):	RecombiMAb human IgG1 isotype control, anti-hen egg lysozyme
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Human CD79b
Reported Applications:	Functional assays Flow cytometry Immunoprecipitation ELISA
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 uses the same variable regions as the therapeutic antibody Polatuzumab, making it ideal for research use. Polatuzumab is a humanized IgG1 monoclonal antibody that targets CD79b, a critical component of the B cell receptor (BCR) complex. CD79b, also known as Igβ, forms a heterodimer with CD79a (Igα) and is essential for signal transduction following antigen engagement of surface immunoglobulin. The CD79a/CD79b complex initiates downstream signaling cascades that regulate B cell development, activation, proliferation, and survival. CD79b is expressed throughout most stages of B cell maturation but is absent from plasma cells and non-B lineage cells. Importantly, CD79b is

retained on the surface of many malignant B cells, including those in diffuse large B-cell lymphoma (DLBCL) and follicular lymphoma, making it an attractive therapeutic and diagnostic target. Polatuzumab serves as the antibody backbone for the FDA-approved antibody-drug conjugate Polatuzumab vedotin, which delivers a cytotoxic MMAE payload to CD79b+ cells. In contrast, this unconjugated biosimilar form lacks any drug conjugation, allowing researchers to study CD79b-specific antibody binding, internalization, and function without the confounding effects of cytotoxicity. This Polatuzumab biosimilar antibody retains the antigen-binding domains of the therapeutic but is produced for non-clinical research use. It is suitable for a range of applications, including flow cytometry, B cell targeting studies, preclinical modeling, and ADC development.

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

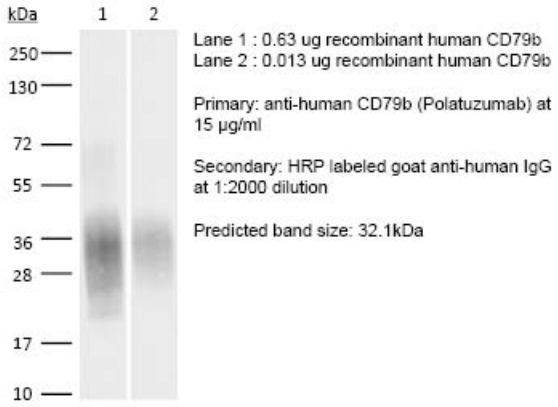
Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/sim0060?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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