

# Technical Data Sheet

## InVivoMAb anti-mouse CD22



**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:	BE0011
Clone:	Cy34.1
Isotype:	Mouse IgG1, $\kappa$
Recommended Isotype Control(s):	InVivoMAb mouse IgG1 isotype control, unknown specificity
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	B10.D2 mouse splenocytes
Reported Applications:	<i>in vivo</i> B cell depletion in combination with anti-CD19 (clone 1D3) and anti-rat $\kappa$ Light Chain (clone MAR 18.5) Flow cytometry Immunoprecipitation
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	<2EU/mg (<0.002EU/ $\mu$ g) Determined by LAL gel clotting assay
Purity:	>95% Determined by SDS-PAGE
Sterility:	0.2 $\mu$ m filtered
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein G
RRID:	<a href="https://abnova.com/AB_1107613">AB_1107613</a>
Molecular Weight:	150 kDa

### Description

The Cy34.1 monoclonal antibody reacts with mouse CD22, a member of the SIGLEC family of lectins. CD22 is expressed at high levels on the surface of mature follicular and marginal zone B lymphocytes, B-1 cells, and plasma cells and associates with the B-cell antigen receptor. CD22 mediates B cell adhesion to ligands on endothelial cells in the bone marrow. Additionally, CD22 negatively regulates B cell activation and prevents the development of autoimmune diseases. The Cy34.1 antibody has been shown to augment B cell proliferation in response to LPS or anti-mouse Ig  $\mu$  chain.

### 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/catalogsearch/result/?q=BE0011#tab\\_references](https://bioxcell.com/catalogsearch/result/?q=BE0011#tab_references) or scan the QR code below.



---

**Bio X Cell, LLC**

<https://bioxcell.com>

+1-866-787-3444

[customerservice@bioxcell.com](mailto:customerservice@bioxcell.com)

*Conditions: For research use only. Not for use in diagnostic or therapeutic procedures.*

*Not for resale.*

**Bio X Cell, Bio X Cell logo, and all other trademarks are the property of Bio X Cell, LLC © 2024 Bio X Cell, LLC**