

# Technical Data Sheet

## InVivoMAb anti-mouse CD122 (IL-2R $\beta$ )



**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: **BE0298**  
Clone: **TM-Beta 1**  
Isotype: Rat IgG2b,  $\kappa$   
Recommended Isotype Control(s): InVivoMAb rat IgG2b isotype control, anti-keyhole limpet hemocyanin  
Recommended Dilution Buffer: InVivoPure pH 8.0 Dilution Buffer  
Immunogen: Mouse IL-2R $\beta$  transfected cell line (TART-m $\beta$  cells)  
Reported Applications: *in vivo* NK cell depletion  
*in vivo* CD122 blockade  
*in vitro* IL-2R blockade  
Functional assays  
Flow cytometry  
Formulation: PBS, pH 8.0  
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 filtration  
Production: Purified from cell culture supernatant in an animal-free facility  
Purification: Protein G  
RRID: [AB\\_2687820](https://abnova.com/AB_2687820)  
Molecular Weight: 150 kDa

### Description

The TM-beta 1 monoclonal antibody reacts with mouse CD122 also known as the IL-2 receptor beta chain. CD122 is a 70-75 kDa subunit of the IL-2 receptor and the IL-15 receptor. CD122 is expressed on NK cells and at lower levels by T lymphocytes, B lymphocytes, monocytes, and macrophages. The IL-2R has been shown to play roles in lymphocyte differentiation, activation, and proliferation. In complex with IL-2R $\alpha$ , IL-2R binds IL-2 with relatively low affinity however, when CD122 combines with IL-2R $\alpha$  and the common gamma chain (CD132) the complex binds IL-2 with high affinity. The TM-beta 1 antibody is reported to inhibit binding of IL-2 to the IL-2R. Additionally, this antibody has been shown to deplete CD122 expressing NK cells with administered *in vivo*.

### 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=BE0298#tab\\_references](https://bioxcell.com/catalogsearch/result/?q=BE0298#tab_references) or scan the QR code below.



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*Not for resale.*

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