

Technical Data Sheet

InVivoMAb anti-mouse CD122 (IL-2R β)



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, κ
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 β transfected cell line (TART-m β 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: ≤ 1 EU/mg (≤ 0.001 EU/ μ g)
Determined by LAL gel clotting assay

Purity: $\geq 95\%$
Determined by SDS-PAGE

Sterility: 0.2 μ 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 α , IL-2R binds IL-2 with relatively low affinity however, when CD122 combines with IL-2R α 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/be0298?bxcs=9k1b3a#tab_references or scan the QR code below.



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