

Technical Data Sheet

InVivoPlus anti-mouse CD122 (IL-2R β)



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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: BP0298
Clone: TM-Beta 1
Isotype: Rat IgG2b, κ
Recommended Isotype Control(s): InVivoPlus 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: ≤ 0.5 EU/mg (≤ 0.0005 EU/ μ g)
Determined by LAL 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:
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 [?utm_source=cr9k1b#tab_references](https://www.bioxcell.com/?utm_source=cr9k1b#tab_references) or scan the QR code below.



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