

Technical Data Sheet

InVivoMAb anti-mouse CD8 (Lyt 2.1)



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: BE0118
Clone: 116-13.1 (HB-129)
Isotype: Mouse IgG2a, κ
Recommended Isotype Control(s): InVivoMAb mouse IgG2a isotype control, unknown specificity
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: CE mouse spleen cells and thymocytes
Reported Applications: *in vivo* CD8+ T cell depletion
Flow cytometry
Formulation: PBS, pH 7.0
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 filtered
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein G
RRID: [AB_10949065](https://europepmc.org/abstract/PP/AB_10949065)
Molecular Weight: 150 kDa

Description

The 116-13.1 monoclonal antibody reacts with the Lyt 2.1 allele of mouse CD8. The CD8 antigen is a transmembrane glycoprotein that acts as a co-receptor for the T cell receptor (TCR). Like the TCR CD8 binds to class I MHC molecules displayed by antigen presenting cells (APC). CD8 is primarily expressed on the surface of cytotoxic T cells but can also be found on thymocytes natural killer cells and some dendritic cell subsets. CD8 most commonly exists as a heterodimer composed of one CD8 α and one CD8 β chain however it can also exist as a homodimer composed of two CD8 α chains. Both the CD8 α and CD8 β chains share significant homology to immunoglobulin variable light chains. The molecular weight of each CD8 chain is approximately 34 kDa. The 116-13.1 antibody exhibits depleting activity in NOD mice when used *in vivo*. This antibody does not function in C57BL/6 or BALB/c strains since these strains only express the Lyt 2.2 allele of CD8.

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/be0118?bxcs=9k1b3a#tab_references or scan the QR code below.



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