

Technical Data Sheet

InVivoMAb anti-mouse CD3



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: BE0002
Clone: 17A2
Isotype: Rat IgG2b, κ
Recommended Isotype Control(s): InVivoMAb rat IgG2b isotype control, anti-keyhole limpet hemocyanin
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: $\gamma\delta$ TCR-positive T-T hybridoma D1
Reported Applications: *in vitro* T cell stimulation/activation
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: $\leq 1\text{EU/mg}$ ($\leq 0.001\text{EU}/\mu\text{g}$)
Determined by LAL gel clotting assay
Purity: $\geq 95\%$
Determined by SDS-PAGE
Sterility: $0.2\ \mu\text{m}$ filtered
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein G
RRID: [AB_1107630](https://rrid.info/AB_1107630)
Molecular Weight: 150 kDa

Description

The 17A2 monoclonal antibody reacts with mouse CD3, a transmembrane cell-surface protein that belongs to the immunoglobulin superfamily. CD3 associates with TCR α/β or γ/δ chains to form the TCR complex. CD3 is expressed on T lymphocytes, NK-T cells, and to varying degrees on developing thymocytes. CD3 plays roles in TCR signaling, T lymphocyte activation, and antigen recognition. The 145-2C11 antibody has been shown to block the binding of the 17A2 antibody suggesting that the 17A2 antibody recognizes an epitope of the CD3 ϵ chain. Treatment with the 17A2 antibody *in vivo* has been reported to partially deplete T lymphocytes and temporarily down-modulate CD3 expression on T cells.

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/be0002?bxcs=9k1b3a#tab_references or scan the QR code below.



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