

Technical Data Sheet

InVivoMAb anti-mouse CD3 ϵ



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: BE0001-1
Clone: 145-2C11
Isotype: Armenian Hamster IgG1
Recommended Isotype Control(s): InVivoMAb polyclonal Armenian hamster IgG
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: Mouse BM10-37 cytotoxic T cells
Reported Applications: *in vivo* T cell depletion
in vitro T cell stimulation/activation
Immunofluorescence
Flow cytometry
Western blot

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 filtration

Production: Purified from cell culture supernatant in an animal-free facility

Purification: Protein A

RRID: [AB_1107634](https://rrid.info/AB_1107634)

Molecular Weight: 150 kDa

Description

The 145-2C11 monoclonal antibody reacts with mouse CD3 ϵ , a 20 kDa transmembrane cell-surface protein that belongs to the immunoglobulin superfamily. CD3 ϵ is one of five polypeptide chains that combine to form the TCR complex. CD3 ϵ 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 induce T lymphocyte activation, proliferation, and apoptosis via binding and stimulating the TCR. Additionally, the 145-2C11 antibody has been reported to block the binding of the 17A2 antibody to CD3 ϵ + T lymphocytes.

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.

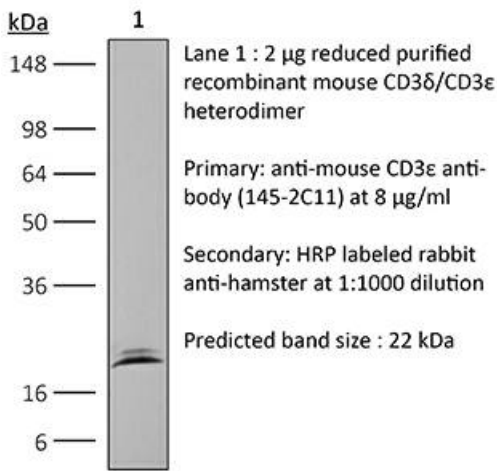
Application References

For a complete list of references, visit https://bioxcell.com/be0001-1?bxcs=9k1b3a#tab_references or scan the QR code below.



Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail technicalservice@bioxcell.com.



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