

Technical Data Sheet

InVivoMAb anti-mouse CD3 ϵ F(ab')2 fragment



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://biocell.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: BE0001-1FAB
Clone: 145-2C11 f(ab')2 Fragments
Isotype: Armenian Hamster IgG1
Recommended Isotype Control(s): InVivoMAb hamster IgG f(ab')2 fragments
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: Mouse BM10-37 cytotoxic T cells
Reported Applications: *in vivo* T cell depletion
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: <2EU/mg (<0.002EU/ μ g)
Determined by LAL gel clotting assay
Purity: >95%
Determined by SDS-PAGE
Sterility: 0.2 μ m filtered
Production: Pepsin Digest
Purification: Protein A
RRID: [AB_2687679](#)

Description

The anti-mouse CD3 F(ab')2 fragment is the antigen binding F(ab')2 fragments of the 145-2C11 monoclonal antibody only. The majority of the Fc fragment has been removed via pepsin digestion. The 145-2C11 antibody F(ab')2 fragment 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 complete 145-2C11 antibody is commonly used to stimulate T cells *in vitro* however, when used *in vivo* activation of resting T cells results in cytokine release and toxicity caused by Ab-mediated cross-linking of T cells and Fc γ receptor-bearing cells. To avoid these complications non-Fc receptor binding F(ab')2 fragments of the 145-2C11 antibody are commonly used. This non-FcR-binding anti-CD3 induces apoptosis of Ag-activated T cells *in vivo* by allowing durable expression of the TCR and sustained signaling. Foxp3 $+$ Tregs have been shown to be resistant to CD3 antibody-mediated depletion.

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://biocell.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://biocell.com/be0001-1fab?bxcs=9k1b3a#tab_references or scan the QR code below.



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