

## InVivoMAb anti-mouse CD3ε F(ab')<sub>2</sub> fragment

### Lot Specific Information

<b>Lot Number:</b>	Lot Specific*
<b>Volume:</b>	Lot Specific*
<b>Concentration:</b>	Lot Specific* (generally 4 to 11 mg/ml) *
<b>Total Protein:</b>	Lot Specific*

\*This information will be noted on the certificate of analysis that ships with this product.

### Product Information

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

### Description

The anti-mouse CD3 F(ab')<sub>2</sub> fragment is the antigen binding F(ab')<sub>2</sub> 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')<sub>2</sub> fragment reacts with mouse CD3ε, a 20 kDa transmembrane cell-surface protein that belongs to the immunoglobulin superfamily. CD3ε is one of five polypeptide chains that combine to form the TCR complex. CD3ε 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 Fcγ receptor-bearing cells. To avoid these complications non-Fc receptor binding F(ab')<sub>2</sub> 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<sup>+</sup> Tregs have been shown to be resistant to CD3 antibody-mediated depletion.

### Shelf-life and Storage

Store at the stock concentration at 4°C. **Do not freeze.**

All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. 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 [bxcell.com/faqs](https://bxcell.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://bxcell.com/product/m-cd3e-fab2-fragments/#references> or scan the QR code below.

### Bio X Cell, Inc.

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