

Anti-Mouse CD3 ϵ (Clone 145-2C11) F(ab')₂ fragment **Purified *in vivo* GOLD™ Functional Grade** **F(ab')₂ Monoclonal Antibody**

Product Information

Product No.: C1758-FAB2
Clone: 145-2C11
RRID: AB_2737455
Isotype: Armenian Hamster IgG1
Storage: Sterile 2-8°C

Product Description

Specificity

Clone 145-2C11 recognizes an epitope on mouse CD3 ϵ .

Antigen Distribution

CD3 ϵ is primarily expressed on mature T cells and NK-T cells and at different levels on differentiation-dependent thymocytes.

Background

Derived from the 145-2C11 monoclonal antibody, this product provides the F(ab')₂ fragment, targeting the 20 kDa transmembrane CD3 ϵ protein, a crucial component of the TCR complex on T lymphocytes, NK-T cells, and thymocytes. Pepsin digestion removes the Fc region, ensuring minimal non-specific binding and preventing Fc γ receptor-mediated cross-linking. This F(ab')₂ fragment is designed for *in vivo* applications where the full 145-2C11 antibody's T cell activation can lead to adverse effects. It induces apoptosis in antigen-activated T cells by promoting sustained TCR expression and signaling, while Foxp3+ regulatory T cells remain unaffected.

Known Reactivity Species

Mouse

Format

in vivo GOLD™, Purified *in vivo* Functional Grade

Immunogen

H-2Kb-specific mouse cytotoxic T lymphocyte clone BM10-37

Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity

≥95% monomer by analytical SEC, >95% by SDS Page

Endotoxin

< 1.0 EU/mg as determined by the LAL method

Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C. **Avoid Repeated Freeze Thaw Cycles.**

Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

Product Datasheet

www.leinco.com



Other Applications Reported in Literature:

Depletion

Country of Origin

USA

References

- 1.) Abdulreda, M.H. *et al.* (2019) *Diabetologia*. **63**, 237–1250
- 2.) Skyberg, J. A. *et al.* (2020) *Infection and Immunity*. **88**: 5. [Journal Link](#)

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