

Anti-Mouse CD3 ϵ (Clone 145-2C11) Purified *in vivo* PLATINUM™ Functional Grade Monoclonal Antibody

Product Information

Product No.: C2280
Clone: 145-2C11
RRID: AB_2829369
Isotype: Armenian Hamster IgG
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

CD3 ϵ is a 20kDa subunit of the TCR complex and is a transmembrane T-cell surface glycoprotein that belongs to the Ig superfamily. It is one of five polypeptide chains that form the TCR complex by associating with the CD3 δ , γ and ζ chains, in addition to the TCR α/β or γ/δ chains. CD3 is involved in TCR signaling, enumeration of immunocompetent T-lymphocytes in peripheral blood, and signal transduction during antigen recognition.

Known Reactivity Species

Mouse

Format

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

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

≥98% monomer by analytical SEC, >95% by SDS Page

Endotoxin

≤ 0.5 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.

Pathogen Testing

To protect mouse colonies from infection by pathogens and to assure that experimental preclinical data is not affected by such pathogens, all of Leinco's Purified Functional PLATINUM™ antibodies are tested and guaranteed to be negative for all pathogens in the IDEXX IMPACT I Mouse Profile.

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

Product Datasheet

www.leinco.com



Applications

Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for this 145-2C11 antibody for staining cells in flow cytometry is $\leq 1.0 \mu\text{g}$ per 10^6 cells in a volume of 100 μl . Titration of the reagent is recommended for optimal performance for each application.

Other Applications Reported in Literature:

IHC (Frozen) The suggested concentration for this 145-2C11 antibody in IHC staining on frozen tissue is 5.0 - 10 μg per ml. Titration of the reagent is recommended for optimal performance for each application.

IP

Act

B

Depletion

ICC

CyTOF®

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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