

Product Datasheet

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Anti-Mouse CD3 ϵ (Clone 500A2) Purified *in vivo* GOLD™ Functional Grade Monoclonal Antibody

Product Information

Product No.: C219
Clone: 500A2
RRID: AB_2737460
Isotype: Syrian Hamster IgG2a κ
Storage: Sterile 2-8°C

Product Description

Specificity:

Clone 500A2 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:

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

Immunogen:

Mouse T-cell receptor

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.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for this 500A2 antibody for staining cells in flow cytometry is ≤ 1.0 μ g per 10⁶ cells in a volume of 100 μ l. Titration of the reagent is recommended for optimal performance for each application.

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

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Other Applications Reported in Literature:

IHC (Frozen) The suggested concentration for this 500A2 antibody in IHC staining on frozen tissue is 2.5 - 10 µg per ml. Titration of the reagent is recommended for optimal performance for each application.

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Country of Origin

USA

References

1. Havran, WM. *et al.* (1987) *Nature* **330**:170
2. Allison, JW. *et al.* (1988) *The T-Cell Receptor* **33**

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