

Product Datasheet

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Anti-Human CD3 [Clone UCHT-1] — Purified *in vivo* PLATINUM™ Functional Grade

Monoclonal Antibody

Product Information

Product No.:	C664
Clone:	UCHT-1
RRID:	AB_2829807
Isotype:	Mouse Mouse IgG1 κ
Storage:	Sterile 2-8°C

Product Description

Specificity:

Clone UCHT-1 recognizes an epitope on human CD3 ϵ .

Antigen Distribution:

CD3 is expressed on human peripheral blood lymphocytes, splenic lymphocytes, and the majority of T-CLL and T-ALL cells.

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:

Human

Format:

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

Immunogen:

Unknown

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.

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

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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.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for this UCHT-1 antibody for staining cells in flow cytometry is ≤ .25 µg per 10⁶ cells in a volume of 100 µl or 100µl of whole blood. Titration of the reagent is recommended for optimal performance for each application.

WB

Other Applications Reported in Literature:

PhenoCycler-Fusion (CODEX)®

CyTOF®

IP

Activation

IHC (Frozen) The suggested concentration for this UCHT-1 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.

Country of Origin

USA

References

1. Hitsuda, Y. *et al.* (1999) *Yonago Acta medica* **42**:1–10 [Article Link](#)
2. van Dongen, J. *et al.* (1988) *Blood* **71**:603

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3. Meuer, SC. *et al.* (1983) *Nature* **303**:808
4. Beverly, P. *et al.* (1981) *Eur. J. Immunol.* **11**:329
5. Leukocyte Typing III: Code No. 126, 208 and 471; 4th Workshop: Paper No. T3.2

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