Anti-human CD3ε-NL557

Catalog Number: NL100R
Lot Number: ABPI01
100 Tests in 50 µL staining volume
20 Tests in 250 µL staining volume

Reagents Provided

NorthernLights™ 557 (NL557)-conjugated mouse monoclonal anti-human CD3ε: Supplied as a 10X solution of antibody in 0.5 mL PBS containing 0.1% sodium azide.

Clone#: UCHT1

Isotype: mouse IgG_1

Storage

Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

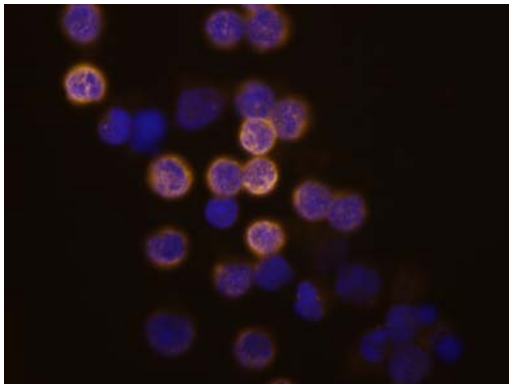
Intended Use

Designed to visualize the expression of human CD3ε by fluorescence microscopy.

Product Description

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with human infant thymocytes.[1] The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. The purified antibody was then conjugated to fluorochrome NL557. The spectral characteristics of NL557 are provided, along with those of Rhodamine Red™-X (RRX) and Cy™3 for comparison.

Fluorochrome	Absorption Maximum (nm)	Emission Maximum (nm)
NL557	557	574
RRX	570	590
Cy3	548	562



Human CD3ε-NL557

Human peripheral blood mononuclear cells were stained with NL557-conjugated anti-human CD3ε (Catalog # NL100R, red) and counterstained with DAPI (blue).

Background Information

CD3ε is one of at least four invariant proteins that associate with the variable antigen recognition chains of the T cell receptor and function in signal transduction.

Reference

1. Beverly, P.C.L. & R.E. Callard (1981) Eur. J. Immunol. **11**:329.

Immunocytochemistry Validation

This antibody has been tested for immunocytochemistry using human peripheral blood mononuclear cells. Cells were fixed in PBS containing 4% paraformaldehyde, and blocked with PBS containing 10% normal donkey serum, 0.3% Triton® X-100, and 1% BSA. After blocking, cells were incubated with NL557-conjugated antibody at a final concentration of 1X (1:10 dilution) in blocking buffer for 3 hours in the dark. Between each step, cells were washed with PBS containing BSA. If a staining volume of 250 µL is used, this kit can be used for 20 tests; 100 tests can be done using a staining volume of 50 µL.

Warning: Contains sodium azide as a preservative - sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large volumes of water during disposal.

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

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