

## iFluor™ 680 Anti-human CD3 Antibody \*UCHT1\*

Catalog number: 10032010, 10032011 Unit size: 100 tests, 500 tests

**Product Details** 

Storage Conditions 2-8°C with minimized light exposure. Do not freeze.

Expiration Date 12 months upon receiving

Concentration 0.1 mg/mL

Formulation Phosphate-buffered saline (PBS, pH 7.2), 0.09% sodium azide, 0.2% (w/v) BSA

**Antibody Properties** 

Species Reactivity Human

Class Primary

Clonality Monoclonal

Host Mouse

Immunogen CD3e (T3E)

Clone UCHT1

Conjugate iFluor™ 680

**Biological Properties** 

Appearance Blue liquid

Preparation Antibody purified by affinity chromatography and then conjugated with iFluor™ 680 under

optimal conditions

Application Flow Cytometry (FACS), Fluorescence Imaging

**Spectral Properties** 

Conjugate iFluor™ 680

Excitation Wavelength 684 nm

Emission Wavelength 701 nm

## **Applications**

The UCHT1 monoclonal antibody binds to human CD3e, a 20 kD member of the Ig superfamily commonly found on the surface of tregs, thymocytes, nkt cells and thymocytes (differentiation dependent)s. In many organisms, CD3 enhances interleukin-4 production, is an inhibitor of gene expression and negatively regulates smoothened signaling pathway. Also, it plays a role in essential cellular pathways, for instance, the cell surface receptor signaling pathway, T cell receptor signaling pathway and apoptotic signaling pathway. From a research standpoint, it is of biological interest due to its association with vital macromolecules/ligands like TCR. CD3 is a very popular antibody target, with over 80000

publications in the last decade. CD3e is typically used in flow cytometry applications as a phenotypic marker for differentiation of cell types, particularly in the study of immunology. This antibody was purified through affinity chromatography and conjugated to iFluor™ 680 (ex/em 684/701 nm).	=
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