

iFluor™ 647 Anti-human CD3 Antibody *OKT-3*

Catalog number: 100340F0, 100340F1 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

Isotype Mouse igg2a, κ

Immunogen CD3e (T3E)

Clone OKT-3

Conjugate iFluor™ 647

Biological Properties

Appearance Blue liquid

Preparation Antibody purified by affinity chromatography and then conjugated with iFluor™ 647 under

optimal conditions

Application Flow Cytometry (FACS), Fluorescence Imaging

Spectral Properties

Conjugate iFluor™ 647

Excitation Wavelength 656 nm

Emission Wavelength 670 nm

Applications

OKT-3 is an anti-human monoclonal antibody that targets the CD3e antigen. CD3e (alternatively called T cell antigen receptor complex or TCRE) is a 20 kD member of the Ig superfamily that is located on the surface of cells like T cells. CD3 is a member of important cellular pathways, in particular, the cell surface receptor signaling pathway, T cell receptor signaling pathway and negative regulation of smoothened signaling

pathway. Furthermore, in certain organisms, it positively regulates calcium-mediated signaling, upregulates peptidyl-tyrosine phosphorylation and enhances cell-matrix adhesion. From a research standpoint, it is of biological interest due to its association with vital macromolecules/ligands such as TCR. CD3 is a very popular antibody target, with over 80000 publications in the last decade. CD3e is vital to immunology research, typically serving as a phenotypic marker for differentiating cell types in flow cytometric applications. This antibody was purified through affinity chromatography and conjugated to iFluor™ 647 (ex/em = 656/670 nm). It is compatible with the 640 nm laser and 675/25 nm bandpass filter (for example, as in the BD Accuri™ C6 Plus).