

## iFluor™ 700 Anti-human CD4 Antibody \*RPA-T4\*

Catalog number: 100410J0, 100410J1 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 IgG1

Immunogen CD4 (Leu-3, T4)

Clone RPA-T4

Conjugate iFluor™ 700

**Biological Properties** 

Appearance Blue liquid

Preparation Antibody purified by affinity chromatography and then conjugated with iFluor™ 700 under

optimal conditions

Application Flow Cytometry (FACS), Fluorescence Imaging

**Spectral Properties** 

Conjugate iFluor™ 700

Excitation Wavelength 690 nm

Emission Wavelength 713 nm

**Applications** 

RPA-T4 is an anti-human monoclonal antibody that targets the CD4 antigen. CD4 (sometimes called T4 or Leu3a) is a 55 kD transmembrane glycoprotein that is expressed on the surface of cells such as granulocytes, T cells and macrophages. CD4 acts in vital cellular pathways, for instance, the T cell receptor signaling pathway, interleukin-15-mediated signaling pathway and enzyme linked receptor protein signaling

pathway. Furthermore, in many organisms, it promotes interleukin-2 biosynthetic process, upregulates peptidyl-tyrosine phosphorylation and acts to positively regulate I-kappaB kinase/NF-kappaB signaling. CD4 has been associated with key biological processes such as membrane organization, specifically fusion of virus membrane with host plasma membrane, and is associated with a variety of biologically interesting macromolecules/ligands, namely, gp120 and Lck. CD4 is a very popular antibody target, with over 180000 publications in the last decade. CD4 is commonly 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™ 700 (ex/em = 690/713 nm).