Product Data Sheet

Purified anti-human CD4

Catalog # / Size: 2102505 / 25 µg

2102510 / 100 µg

Clone: RPA-T4

Isotype: Mouse IgG1, κ

Reactivity: Human

The antibody was purified by affinity **Preparation:**

chromatography.

Formulation: Phosphate-buffered solution, pH 7.2,

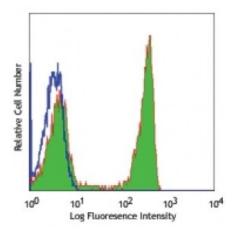
containing 0.09% sodium azide.

Workshop

Number:

IV T114

Concentration: 0.5



Human peripheral blood lymphocytes stained with purified RPA-T4, followed by anti-mouse laGs FITC

Applications:

Applications: Flow Cytometry, Immunohistochemistry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of

this reagent is ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each

application.

Application

Notes:

The RPA-T4 antibody binds to the D1 domain of CD4 (CDR1 and CDR3 epitopes) and can block HIV gp120 binding and inhibit syncytia formation. Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections^{3,4,5}, and blocking of T cell activation^{1,2}. This clone was tested in-house and does not work on formalin fixed paraffin-embedded (FFPE) tissue. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 300516).

Application References:

1. Knapp W, et al. 1989. Leucocyte Typing IV. Oxford University Press. New York. (Activ)

2. Moir S, et al. 1999. J. Virol. 73:7972. (Activ)

3. Deng MC, et al. 1995. Circulation 91:1647. (IHC)

4. Friedman T, et al. 1999. J. Immunol. 162:5256. (IHC) 5. Mack CL, et al. 2004. Pediatr. Res. 56:79. (IHC)

6. Lan RY, et al. 2006. Hepatology 43:729.

7. Zenaro E, et al. 2009. J. Leukoc. Biol. 86:1393. (FC) PubMed

8. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

CD4, also known as T4, is a 55 kD single-chain type I transmembrane glycoprotein **Description:**

expressed on most thymocytes, a subset of T cells, and monocytes/macrophages. CD4, a member of the Ig superfamily, recognizes antigens associated with MHC class II molecules, and participates in cell-cell interactions, thymic differentiation, and signal transduction. CD4 acts as a primary receptor for HIV, binding to HIV

gp120. CD4 has also been shown to interact with IL-16.

Antigen 1. Center D, et al. 1996. Immunol. Today 17:476.

References:	2. Gaubin M, et al. 1996. Eur. J. Clin. Chem. Clin. Biochem. 34:723.