

Product Data Sheet

PE/Cy5 anti-human CD4

Catalog # / Size: 300509 / 25 tests

300510 / 100 tests

Clone: RPA-T4

Isotype: Mouse IgG1, κ

Workshop Number: IV T114

Reactivity: Human, Cross-Reactivity: Chimpanzee

Preparation: The antibody was purified by affinity chromatography, and conjugated with

PE/Cy5 under optimal conditions. The solution is free of unconjugated

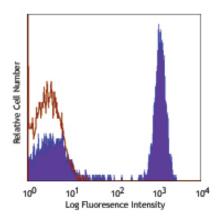
PE/Cy5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



Human peripheral blood lymphocytes stained with RPA-T4 PE/Cy

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Test size products are transitioning from 20 μl to 5 μl per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

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^{3,4,5} of acetone-fixed frozen sections, and blocking of T cell activation^{1,2}. The LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No.

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed

for research use only.

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)

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

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

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

PE/Cy5 anti-human CD184 (CXCR4) 12G5 FC	
DE/CyE anti human CD2E DC06 FC	
PE/Cy5 anti-human CD25 BC96 FC	
PE/Cy5 anti-human CD3 HIT3a FC	
PE/Cy5 anti-human CD8a HIT8a FC	
PE/Cý5 anti-human CD8a RPA-T8 FC	
PE/Cý5 anti-human CD3 UCHT1 FC	
PE/Cy5 Mouse IgG1, κ Isotype Ctrl MOPC-21 FC, ICFC	
Cell Staining Buffer FC, ICC, ICF0)
RBC Lysis Buffer (10X) FC, ICFC	
PE anti-human CD184 (CXCR4) 4G10 FC	
Human TruStain FcX™ (Fc Receptor Blocking Solution) FC, ICC, ICF)



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