

CD4 Monoclonal Antibody (RPA-T4), eFluor 506, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Artificial Control, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor 506, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RPA-T4
Conjugate	eFluor® 506
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2637466

Applications	Tested Dilution	Publications
Immunofluorescence (IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	27 Publications

Product Specific Information

Description: The RPA-T4 monoclonal antibody reacts with human CD4, a 59 kDa cell surface receptor expressed by a majority of thymocytes, subpopulation of mature T cells (T-helper cells) and in low levels on monocytes. CD4 is a receptor for the human immunodeficiency virus (HIV). RPA-T4 blocks HIV binding and mixed lymphocyte reaction. The RPA-T4 antibody recognizes a different epitope than the OKT4 monoclonal antibody, and these antibodies do not cross-block binding to each other's respective epitopes.

Applications Reported: This RPA-T4 antibody has been reported for use in flow cytometric analysis.

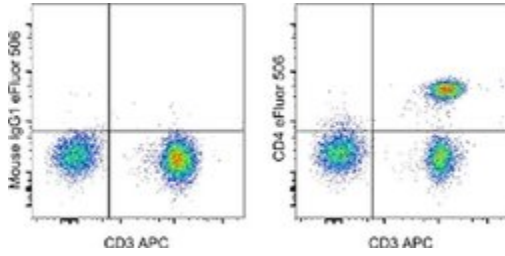
Applications Tested: This RPA-T4 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

eFluor® 506 can be excited with the violet laser line (405 nm) and emits at 506 nm. We recommend using a 510/20 band pass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 506 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD4 Monoclonal Antibody (RPA-T4), eFluor 506, eBioscience™



CD4 Antibody (69-0049-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD3 APC (Product # 17-0036-42) and Mouse IgG1 K Isotype Control eFluor® 506 (Product # 69-4714-82) (left) or Anti-Human CD4 eFluor® 506 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

Immunofluorescence (1)

Proceedings of the National Academy of Sciences of the United States of America

Remarkably low affinity of CD4/peptide-major histocompatibility complex class II protein interactions.

"Published figure using CD4 monoclonal antibody (Product # 69-0049-42) in Flow Cytometry"

Authors: Jönsson P, Southcombe JH, Santos AM, Huo J, Fernandes RA, McColl J, Lever M, Evans EJ, Hudson A, Chang VT, Hanke T, Godkin A, Dunne PD, Horrocks MH, Palayret M, Screamon GR, Petersen J, Rossjohn J, Fugger L, Dushek O, Xu XN, Davis SJ, Klenerman D

Species
Not Applicable

Dilution
Not Cited

Year
2016

Flow Cytometry (27)

Cell
RAB11FIP5 Expression and Altered Natural Killer Cell Function Are Associated with Induction of HIV Broadly Neutralizing Antibody Responses.

"Published figure using CD4 monoclonal antibody (Product # 69-0049-42) in Flow Cytometry"

Authors: Bradley T, Peppas D, Pedroza-Pacheco I, Li D, Cain DW, Henao R, Venkat V, Hora B, Chen Y, Vandergrift NA, Overman RG, Edwards RW, Woods CW, Tomaras GD, Ferrari G, Ginsburg GS, Connors M, Cohen MS, Moody MA, Borrow P, Haynes BF

Species
Not Applicable

Dilution
Not Cited

Year
2018

Molecular medicine reports

MicroRNA155 inhibits the proliferation of CD8+ T cells via upregulating regulatory T cells in vitiligo.

"Published figure using CD4 monoclonal antibody (Product # 69-0049-42) in Flow Cytometry"

Authors: Lv M, Li Z, Liu J, Lin F, Zhang Q, Li Z, Wang Y, Wang K, Xu Y

Species
Not Applicable

Dilution
Not Cited

Year
2019

[View more Flow references on thermofisher.com](https://www.thermofisher.com)

More applications with references on thermofisher.com

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