

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

## Product Details

Size	100 Tests
Species Reactivity	Human
Published Species	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
Excitation/Emission Max	419/508 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 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
Immunohistochemistry (IHC)	-	2 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	40 Publications
Neutralization (Neu)	-	1 Publication

## 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.

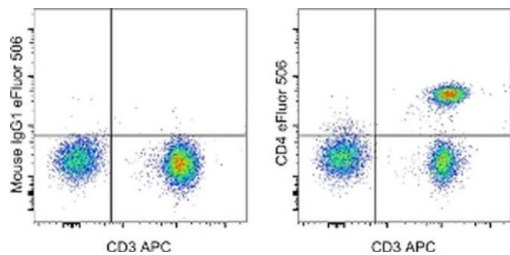
**Applications Tested:** This RPA-T4 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> 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.

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Immunohistochemistry (2)

Cells	Year 2022
<b>Induced Human Regulatory T Cells Express the Glucagon-like Peptide-1 Receptor.</b>	
"Published figure using CD4 monoclonal antibody (Product # 69-0049-42) in Immunohistochemistry"	
Authors: Rode AKO,Buus TB,Mraz V,Al-Jaberi FAH,Lopez DV,Ford SL,Hennen S,Eliassen IP,Klewe IV,Gharehdaghi L, Dragan A,Rosenkilde MM,Woetmann A,Skov L,Ødum N,Bonefeld CM,Kongsbak-Wismann M,Geisler C	
JCI insight	Year 2017
<b>CXCL13-producing TFH cells link immune suppression and adaptive memory in human breast cancer.</b>	
"Published figure using CD4 monoclonal antibody (Product # 69-0049-42) in Flow Cytometry"	
Authors: Gu-Trantien C,Migliori E,Buisseret L,de Wind A,Brohée S,Garaud S,Noël G,Dang Chi VL,Lodewyckx JN, Naveaux C,Duvillier H,Goriely S,Larsimont D,Willard-Gallo K	

Immunocytochemistry (1)

Proceedings of the National Academy of Sciences of the United States of America	Year 2016
<b>Remarkably low affinity of CD4/peptide-major histocompatibility complex class II protein interactions.</b>	
"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,Screaton GR,Petersen J,Rossjohn J,Fugger L,Dushek O,Xu XN, Davis SJ,Klenerman D	

Flow Cytometry (40)

JCI insight	Year 2023
<b>Rapamycin improves Graves' orbitopathy by suppressing CD4+ cytotoxic T lymphocytes.</b>	
"Published figure using CD4 monoclonal antibody (Product # 69-0049-42) in Flow Cytometry"	
Authors: Zhang M,Chong KK,Chen ZY,Guo H,Liu YF,Kang YY,Li YJ,Shi TT,Lai KK,He MQ,Ye K,Kahaly GJ,Shi BY, Wang Y	

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Neu (1)

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