

CD4 Monoclonal Antibody (RPA-T4), Alexa Fluor™ 647, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	RPA-T4
Conjugate	Alexa Fluor™ 647
Excitation/Emission Max	650/671 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_2762472

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	12 Publications
Neutralization (Neu)	-	1 Publication

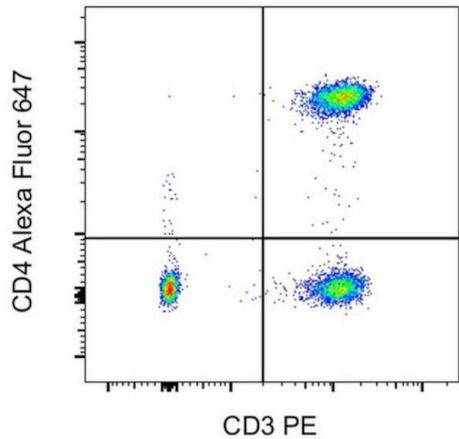
Product Specific Information

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-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may 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.

Excitation: 633-647 nm; **Emission:** 668 nm; **Laser:** Red Laser.



CD4 Antibody (51-0049-42) in Flow

Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, PE (Product # 12-0037-42) and CD4 Monoclonal Antibody, Alexa Fluor 647 (right). Viable lymphocytes, as determined by Fixable Viability Dye eFluor 506 (Product # 65-0866-18), were used for analysis.

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Immunohistochemistry (2)

Cells	Year 2022
Induced Human Regulatory T Cells Express the Glucagon-like Peptide-1 Receptor.	
"Published figure using CD4 monoclonal antibody (Product # 51-0049-42) in Immunohistochemistry"	
Authors: Rode AKO,Buus TB,Mraz V,AI-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	

Flow Cytometry (12)

JCI insight	Year 2023
Rapamycin improves Graves' orbitopathy by suppressing CD4+ cytotoxic T lymphocytes.	
"Published figure using CD4 monoclonal antibody (Product # 51-0049-42) 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	

Frontiers in immunology	Year 2023
Single-cell RNA sequencing reveals the molecular features of peripheral blood immune cells in children, adults and centenarians.	
"Published figure using CD4 monoclonal antibody (Product # 51-0049-42) in Flow Cytometry"	
Authors: Zhong J,Ding R,Jiang H,Li L,Wan J,Feng X,Chen M,Peng L,Li X,Lin J,Yang H,Wang M,Li Q,Chen Q	

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

Neu (1)

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