Performance guarenteed

CD4 Monoclonal Antibody (RPA-T4), Alexa Fluor™ 532, 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), Alexa Fluor™ 532, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	RPA-T4
Conjugate	Alexa Fluor™ 532
Excitation/Emission Max	534/553 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_2802361

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	1:25	2 Publications
Flow Cytometry (Flow)	5 μL (0.125 μg) /test	13 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.

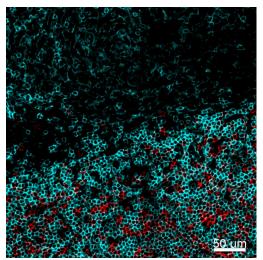
Applications Reported: This RPA-T4 antibody has been reported for use in flow cytometric analysis.

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 μ L (0.125 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

Alexa Fluor 532 is excited with the Green laser (532 nm) and emits at 561 nm. This cannot be used with the Yellow-Green laser (561 nm). We recommend using a 560/14 band pass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

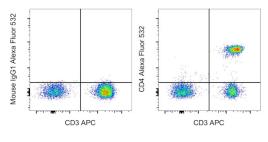
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Product Images For CD4 Monoclonal Antibody (RPA-T4), Alexa Fluor™ 532, eBioscience™



CD4 Antibody (58-0049-42) in IHC

Confocal image of human lymph node imaged using IBEX (Refs: https://www. pnas.org/doi/10.1073/pnas.2018488117; https://www.nature.com/articles/s41596-021-00644-9). CD4+ T cells and macrophages were labeled with CD4 Monoclonal Antibody (RPA-T4), Alexa Fluor[™] 532, eBioscience[™] (Product # 58-0049-42, 1:25 dilution) (cyan). CD8 T cells (red) were detected with a monoclonal antibody (clone SK1). Tissues were prepared using ~1% (vol/vol) formaldehyde and a detergent. Following fixation, samples are immersed in 30% (wt/vol) sucrose for cryoprotection. Images are courtesy of Drs. Andrea J. Radtke and Ronald N. Germain of the Center for Advanced Tissue Imaging (CAT-I) in the National Institute of Allergy and Infectious Diseases (NIAID, NIH). See (https://ibeximagingcommunity.github.io/ibex_imaging_knowledge_base/) for additional community-validated antibodies compatible with IBEX.



CD4 Antibody (58-0049-42) in Flow

Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, APC (Product # 17-0038-42) and Mouse IgG1 kappa Isotype Control, Alexa Fluor 532 (Product # 58-4714-80) (left) or CD4 Monoclonal Antibody, Alexa Fluor 532 (right). Cells in the lymphocyte gate were used for analysis.

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□16 References

Immunohistochemistry (2)

Cells Induced Human Regulatory T Cells Express the Glucagon-like Peptide-1 Receptor.

"Published figure using CD4 monoclonal antibody (Product # 58-0049-42) in Immunohistochemistry" Authors: Rode AKO,Buus TB,Mraz V,AI-Jaberi FAH,Lopez DV,Ford SL,Hennen S,Eliasen IP,Klewe IV,Gharehdaghi L,

Dragan A,Rosenkilde MM,Woetmann A,Skov L,Ødum N,Bonefeld CM,Kongsbak-Wismann M,Geisler C

JCI insight CXCL13-producing TFH cells link immune suppression and adaptive memory in human breast cancer.	Year 2017
"Published figure using CD4 monoclonal antibody (Product # 58-0049-42) in Immunohistochemistry"	

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

Flow Cytometry (13)

JCI insight Rapamycin improves Graves' orbitopathy by suppressing CD4+ cytotoxic T lymphocytes.	Year 2023
"Published figure using CD4 monoclonal antibody (Product # 58-0049-42) 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

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 # 58-0049-42) 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

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2023

Year 2022

More applications with references on thermofisher.com

Neu (1)

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