

CD4 Monoclonal Antibody (RPA-T4), Super Bright™ 436, eBioscience™

Product Details

Size	25 Tests
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RPA-T4
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	5 µL/Test
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744765

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	5 µL (0.5 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.™

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

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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 (0.5 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.™

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Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.™

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When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.™

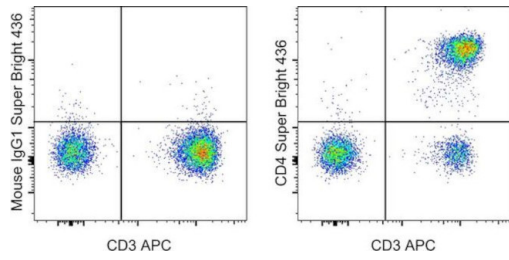
™

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser™

™

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD4 Monoclonal Antibody (RPA-T4), Super Bright™ 436, eBioscience™



CD4 Antibody (62-0049-41) in Flow

Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, APC (Product # 17-0037-82) and Mouse IgG1 kappa Isotype Control, Super Bright 436 (Product # 62-4714-82) (left) or CD4 Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

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

16 References

Immunohistochemistry (2)

Cells

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

"Published figure using CD4 monoclonal antibody (Product # 62-0049-42) 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

Year
2022

JCI insight

CXCL13-producing TFH cells link immune suppression and adaptive memory in human breast cancer.

"Published figure using CD4 monoclonal antibody (Product # 62-0049-42) 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

Year
2017

Flow Cytometry (13)

Journal of biochemical and molecular toxicology

Cathepsin S inhibition in dendritic cells prevents Th17 cell differentiation in perivascular adipose tissues following vascular injury in diabetic rats.

"Published figure using CD4 monoclonal antibody (Product # 62-0049-42) in Flow Cytometry"

Authors: Peng H,Lv Y,Li C,Cheng Z,He S,Wang C,Liu J

Year
2023

JCI insight

Rapamycin improves Graves' orbitopathy by suppressing CD4+ cytotoxic T lymphocytes.

"Published figure using CD4 monoclonal antibody (Product # 62-0049-42) 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

Year
2023

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

More applications with references on thermofisher.com

Neu (1)

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