

CD4 Monoclonal Antibody (RPA-T4), PE-Cyanine5.5, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RPA-T4
Conjugate	PE-Cyanine5.5
Excitation/Emission Max	564/692 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_2811797

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

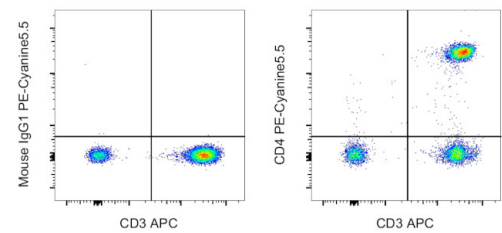
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be

made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 695 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Product Images For CD4 Monoclonal Antibody (RPA-T4), PE-Cyanine5.5, eBioscience™



CD4 Antibody (35-0049-42) in Flow
Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, APC (Product # 17-0038-42) and Mouse IgG1 kappa Isotype Control, PE-Cyanine5.5 (Product # 35-4714-82) (left) or CD4 Monoclonal Antibody, PE-Cyanine5.5 (right). Cells in the lymphocyte gate were used for analysis.

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13 References

Immunohistochemistry (1)

Cells	Year
Induced Human Regulatory T Cells Express the Glucagon-like Peptide-1 Receptor. "Published figure using CD4 monoclonal antibody (Product # 35-0049-42) 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	2022

Flow Cytometry (12)

JCI insight	Year
Rapamycin improves Graves' orbitopathy by suppressing CD4+ cytotoxic T lymphocytes. "Published figure using CD4 monoclonal antibody (Product # 35-0049-42) 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	2023

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 # 35-0049-42) 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	2023

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