

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

| Product Details | |
|-----------------------------|---|
| Size | 100 Tests |
| Species Reactivity | Human |
| Published Species | Human, Mouse, Rhesus monkey |
| Host/Isotype | Mouse / IgG1, kappa |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PerCP-Cyanine5.5, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | RPA-T4 |
| Conjugate | PerCP-Cyanine5.5 |
| Excitation/Emission Max | 489/679 nm |
| Form | Liquid |
| Concentration | 5 µL/Test |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with BSA |
| Contains | 0.09% sodium azide |
| Storage conditions | 4°C, store in dark, DO NOT FREEZE! |
| RRID | AB_1518744 |

| Applications | Tested Dilution | Publications |
|-----------------------|----------------------|-----------------|
| Flow Cytometry (Flow) | 5 µL (0.125 µg)/test | 75 Publications |

Product Specific Information

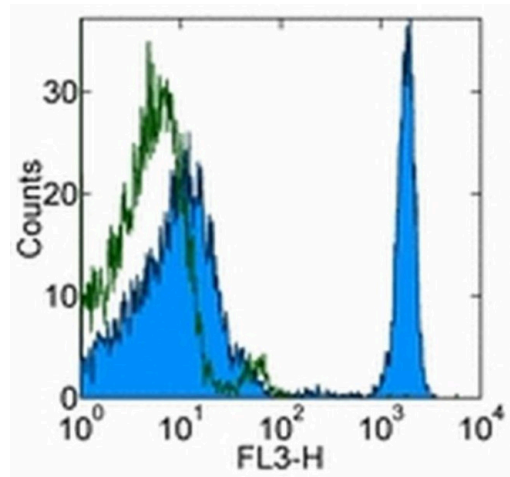
Description: The RPA-T4 monoclonal antibody reacts with human CD4, a 59 kDa cell surface receptor expressed by a majority of thymocytes, subpopulation of mature T cells (T-helper cells) and in low levels on monocytes. CD4 is a receptor for the human immunodeficiency virus (HIV). RPA-T4 blocks HIV binding 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-titrated and tested by flow cytometric analysis of human peripheral blood mononuclear cells. This can be used at 5 µL (0.125 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: 488 nm; **Emission:** 695 nm; **Laser:** Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.



CD4 Antibody (45-0049-42) in Flow
Staining of human peripheral blood cells with Mouse IgG1 kappa Isotype Control PerCP-Cyanine5-5 (Product # 45-4714-82) (open histogram) or Anti-Human CD4 PerCP-Cyanine5-5 (filled histogram). Cells in the lymphocyte gate were used for analysis.

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75 References

Flow Cytometry (75)

| | |
|---|--------------|
| Redox biology | Year 2024 |
| IL-4 activates ULK1/Atg9a/Rab9 in asthma, NLRP3 inflammasomes, and Golgi fragmentation by increasing autophagy flux and mitochondrial oxidative stress. | |
| "Published figure using CD4 monoclonal antibody (Product # 45-0049-42) in Flow Cytometry" | |
| Authors: Xu C,Song Y,Liu W,Liu R,Bai Q,Li L,Wang C,Yan G | |
| British journal of pharmacology | Year 2024 |
| Paediatric sepsis survivors are resistant to sepsis-induced long-term immune dysfunction. | |
| "Published figure using CD4 monoclonal antibody (Product # 45-0049-42) in Flow Cytometry" | |
| Authors: Colón DF,Wanderley CW,Turato WM,Borges VF,Franchin M,Castanheira FVS,Nascimento D,Prado D,Haruo Fernandes de Lima M,Volpon LC,Kavaguti SK,Carlotti AP,Carmona F,Franklin BS,Cunha TM,Alves-Filho JC,Cunha FQ | |

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

More applications with references on thermofisher.cn

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