CD4 Monoclonal Antibody (RPA-T4), FITC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RPA-T4
Conjugate	FITC
Excitation/Emission Max	498/517 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_1659694

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	5 µL (1 µg)/test	48 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.

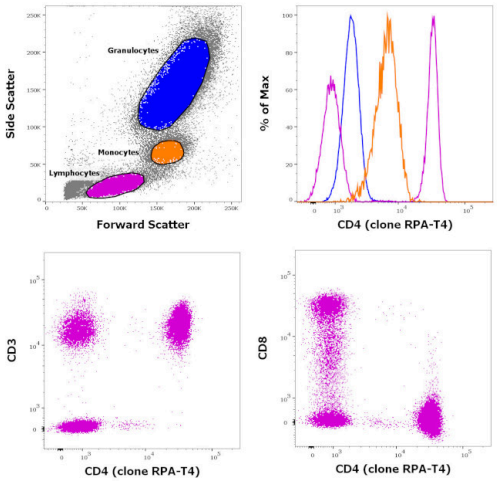
Applications Reported: This RPA-T4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This RPA-T4 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (1 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 10^5 to 10^8 cells /test.

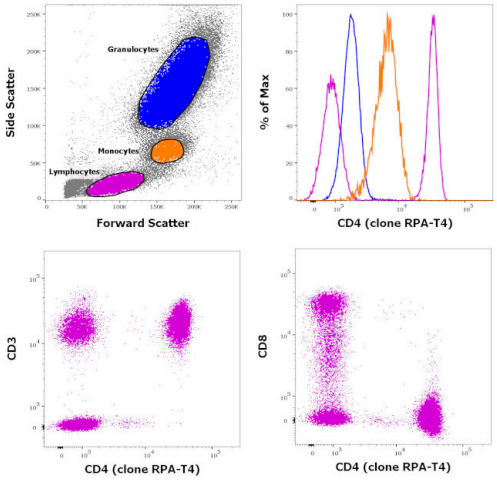
Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

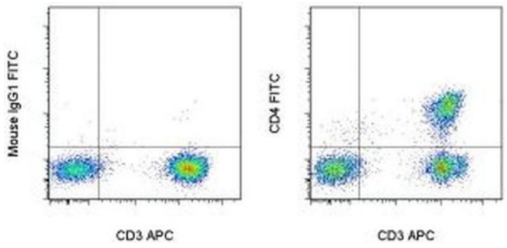
Product Images For CD4 Monoclonal Antibody (RPA-T4), FITC, eBioscience™



CD4 Antibody (11-0049-42)
Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD3 APC, CD8 PerCP and CD4 FITC. As expected based on known relative expression patterns, CD4 clone RPA-T4 stains a subset of lymphocytes (pink) and monocytes (orange), but not granulocytes (blue). {RE}



CD4 Antibody (11-0049-42) in Flow
Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD3 APC, CD8 PerCP and CD4 FITC. As expected based on known relative expression patterns, CD4 clone RPA-T4 stains a subset of lymphocytes (pink) and monocytes (orange), but not granulocytes (blue).



CD4 Antibody (11-0049-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD3 APC (Product # 17-0036-42) and Mouse IgG1 K Isotype Control FITC (Product # 11-4714-42) (left) or Anti-Human CD4 FITC (right). Cells in the lymphocyte gate were used for analysis.

49 References

Immunohistochemistry (1)

Journal of immunology (Baltimore, Md. : 1950)

Lymphotoxin signals from positively selected thymocytes regulate the terminal differentiation of medullary thymic epithelial cells.

"11-0049 was used in Immunofluorescence to explore the mechanisms behind Aire(+) medullary thymic epithelial cell development."

Authors: White AJ,Nakamura K,Jenkinson WE,Saini M,Sinclair C,Seddon B,Narendran P,Pfeffer K,Nitta T,Takahama Y, Caamano JH,Lane PJ,Jenkinson EJ,Anderson G

Year
2010

Species
Human

Flow Cytometry (48)

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.

"11-0049-42 was used in Flow Cytometry to investigate the role of CTSS in restenosis following carotid injury in diabetic rats."

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

Year
2023

Species
Human

Dilution
1:40

Lab on a chip

Pump-less, recirculating organ-on-a-chip (rOoC) platform.

"11-0049-42 was used in Flow cytometry/Cell sorting to show the possibility to circulate immune cells in the microfluidic channels that retain viability without being trapped or activated."

Authors: Busek M,Aizenshtadt A,Koch T,Frank A,Delon L,Martinez MA,Golovin A,Dumas C,Stokowiec J,Gruenzner S, Melum E,Krauss S

Year
2023

Species
Human

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn

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