

# CD4 Monoclonal Antibody (RPA-T4), Biotin, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Hamster, Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RPA-T4
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466337

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	42 Publications
ELISA (ELISA)	-	1 Publication
Neutralization (Neu)	-	1 Publication
Functional Assay (FN)	-	1 Publication

## Product Specific Information

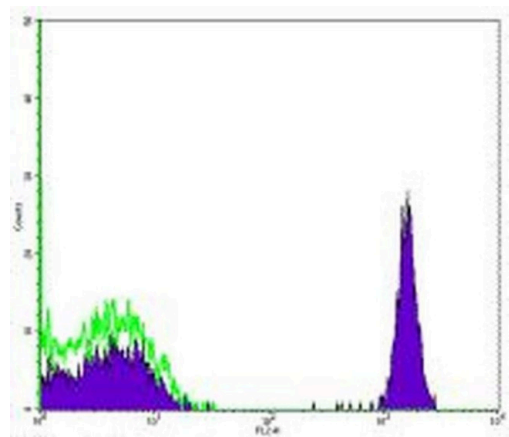
**Description:** The RPA-T4 monoclonal antibody reacts with human CD4, a 59 kDa cell surface receptor expressed by a majority of thymocytes, subpopulation of mature T cells (T-helper cells) and in low levels on monocytes. CD4 is a receptor for the human immunodeficiency virus (HIV). RPA-T4 blocks HIV 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:** The RPA-T4 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The RPA-T4 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 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<sup>5</sup> to 10<sup>8</sup> cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Filtration:** 0.2 µm post-manufacturing filtered.

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



**CD4 Antibody (13-0049-82) in Flow**  
Normal human peripheral blood stained with Anti-Human CD4 Biotin and detected with Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were analyzed.

[View more figures on thermofisher.cn](#)

48 References

Immunohistochemistry (2)

<p><b>Cells</b></p> <p><b>Induced Human Regulatory T Cells Express the Glucagon-like Peptide-1 Receptor.</b></p> <p>"Published figure using CD4 monoclonal antibody (Product # 13-0049-82) in Immunohistochemistry"</p> <p>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</p>	<p><b>Year</b> 2022</p>
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<p><b>JCI insight</b></p> <p><b>CXCL13-producing TFH cells link immune suppression and adaptive memory in human breast cancer.</b></p> <p>"Published figure using CD4 monoclonal antibody (Product # 13-0049-82) in Flow Cytometry"</p> <p>Authors: Gu-Trantien C,Migliori E,Buisseret L,de Wind A,Brohé S,Garaud S,Noël G,Dang Chi VL,Lodewyckx JN, Naveaux C,Duvillier H,Goriely S,Larsimont D,Willard-Gallo K</p>	<p><b>Year</b> 2017</p>
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Immunocytochemistry (1)

<p><b>Proceedings of the National Academy of Sciences of the United States of America</b></p> <p><b>Remarkably low affinity of CD4/peptide-major histocompatibility complex class II protein interactions.</b></p> <p>"Published figure using CD4 monoclonal antibody (Product # 13-0049-82) in Flow Cytometry"</p> <p>Authors: Jönsson P, Southcombe JH,Santos AM,Huo J,Fernandes RA,McColl J,Lever M,Evans EJ,Hudson A,Chang VT, Hanke T,Godkin A,Dunne PD,Horrocks MH,Palayret M,Screaton GR,Petersen J,Rossjohn J,Fugger L,Dushek O,Xu XN, Davis SJ,Klennerman D</p>	<p><b>Year</b> 2016</p>
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Flow Cytometry (42)

<p><b>JCI insight</b></p> <p><b>Rapamycin improves Graves' orbitopathy by suppressing CD4+ cytotoxic T lymphocytes.</b></p> <p>"Published figure using CD4 monoclonal antibody (Product # 13-0049-82) in Flow Cytometry"</p> <p>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</p>	<p><b>Year</b> 2023</p>
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## More applications with references on thermofisher.cn

- ELISA (1)
- Neu (1)
- FN (1)

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