



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

Product Details	
Size	500 ug
	500 μg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	RPA-T4
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_468871

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	48 Publications
Neutralization (Neu)	Assay-Dependent	2 Publications
Functional Assay (FN)	Assay-Dependent	2 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: The RPA-T4 antibody has been reported for use in flow cytometric analysis. RPA-T4 has also been reported for use in blocking of CD4 activity in in vitro functional assays.

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  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

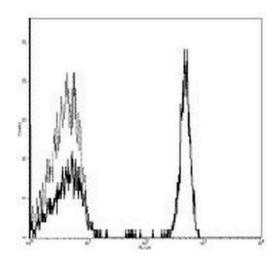
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

### Product Images For CD4 Monoclonal Antibody (RPA-T4), Functional Grade, eBioscience™



### CD4 Antibody (16-0049-85) in Flow

Staining of human peripheral blood lymphocytes with Anti-Human CD4 Functional Grade Purified followed by Anti-Mouse IgG FITC (Product # 11-4011-85).

View more figures on thermofisher.com

#### **□ 55 References**

### Immunohistochemistry (2)

Cells

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

**Year** 2022

"Published figure using CD4 monoclonal antibody (Product # 16-0049-85) in Immunohistochemistry"

Authors: Rode AKO,Buus TB,Mraz V,Al-Jaberi FAH,Lopez DV,Ford SL,Hennen S,Eliasen IP,Klewe IV,Gharehdaghi L, Dragan A,Rosenkilde MM,Woetmann A,Skov L,Ødum N,Bonefeld CM,Kongsbak-Wismann M,Geisler C

**Year** 2017

JCI insight

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

"Published figure using CD4 monoclonal antibody (Product # 16-0049-85) in Flow Cytometry"

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

### Immunocytochemistry (1)

Proceedings of the National Academy of Sciences of the United States of America

**Year** 2016

### Remarkably low affinity of CD4/peptide-major histocompatibility complex class II protein interactions.

"Published figure using CD4 monoclonal antibody (Product # 16-0049-85) in Flow Cytometry"

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,Klenerman D

#### Flow Cytometry (48)

JCI insight

**Year** 2023

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

"Published figure using CD4 monoclonal antibody (Product # 16-0049-85) 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

View more Flow references on thermofisher.com

### More applications with references on thermofisher.com

Neu (2) FN (2)

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