

# FOXP3 Monoclonal Antibody (PCH101), APC, eBioscience™

| Product Details             |  |
|-----------------------------|--|
| Size                        | 25 Tests   |
| Species Reactivity          | Chimpanzee, Cynomolgus monkey, Human, Non-human primate, Rhesus monkey |
| Published Species           | Pig, Non-human primate, Human, Mouse, Rhesus monkey                    |
| Host/Isotype                | Rat / IgG2a, kappa   |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™             |
| Class                       | Monoclonal   |
| Type                        | Antibody   |
| Clone                       | PCH101   |
| Conjugate                   | APC  |
| Excitation/Emission Max     | 651/660 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_1603281   |

| Applications                              | Tested Dilution    | Publications     |
|---|--------------------|------------------|
| Immunohistochemistry (IHC)                | -                  | 1 Publication    |
| Immunohistochemistry (Paraffin) (IHC (P)) | -                  | 1 Publication    |
| Flow Cytometry (Flow)                     | 5 µL (0.5 µg)/test | 116 Publications |

## Product Specific Information

Description: eBioscience offers a panel of monoclonal antibodies to different epitopes of human Foxp3, providing useful tools for investigating the complete expression pattern of Foxp3 at the protein level, and discerning the precise subsets of Foxp3<sup>+</sup> cells.

The PCH101 antibody reacts with the amino terminus of human foxp3 protein also known as FORKHEAD BOX P3, SCURFIN, and JM2; cross reactivity of this antibody to other proteins has not been determined. Foxp3, a 49-55 kDa protein, is a member of the forkhead/winged-helix family of transcriptional regulators, and was identified as the gene defective in 'scurfy' (sf) mice. Constitutive high expression of Foxp3 mRNA has been shown in CD4<sup>+</sup>CD25<sup>+</sup> regulatory T cells (Treg cells), and ectopic expression of foxp3 in CD4<sup>+</sup>CD25<sup>-</sup> cells imparts a Treg phenotype in these cells.

Intracellular staining of human peripheral blood mononuclear cells (PBMCs) with PCH101 antibody using the anti-human Foxp3 Staining Set and protocol reveals approximately 0.5-4% of lymphocytes staining, with the majority of staining occurring in the CD25<sup>+</sup> population. This is subject to donor variability.

PCH101 cross-reacts with rhesus, chimpanzee and cynomolgus. We recommend the use of CD4 (OKT4, Product # 11-0048-42 , or RPA-T4, Product # 11-0049-42 , depending on the species) and CD25 (BC96, Product # 17-0259-42).

Applications Reported: This PCH101 antibody has been reported for use in intracellular staining followed by flow cytometric

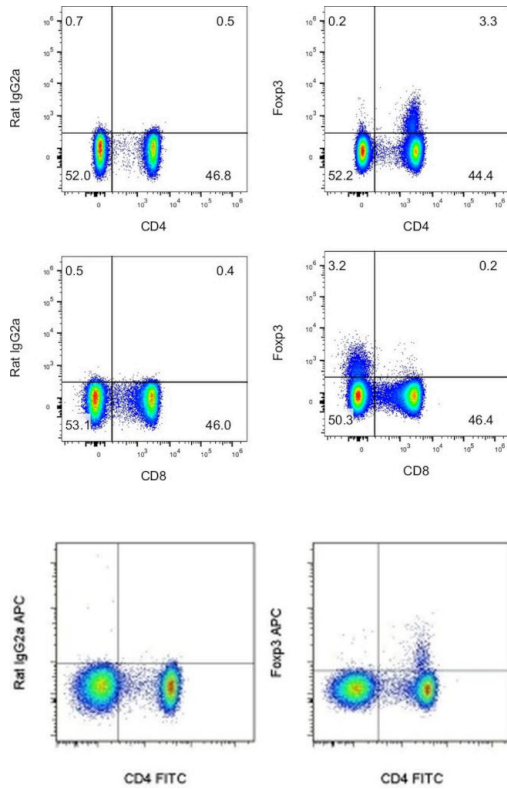
analysis.

**Applications Tested:** This PCH101 antibody has been pre-titrated and tested by intracellular flow cytometric analysis of normal human peripheral blood cells using the Fcγ3/Transcription Factor Buffer and protocol. Refer to BestProtocols® for Staining Protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This can be used at 5 μL (0.5 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.

**Excitation:** 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

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

## Product Images For FOXP3 Monoclonal Antibody (PCH101), APC, eBioscience™



### FOXP3 Antibody (17-4776-41)

Intracellular staining of human peripheral blood cells. As expected based on known relative expression patterns, Fcγ3 clone PCH101 stains a subset of the CD4+ T cells and does not stain the CD8+ T cells. Details: Normal human peripheral blood cells were surface stained with CD3 (clone UCHT1), CD4 (clone RPA-T4, top), and CD8 (clone OKT8, bottom), followed by intracellular staining with Rat IgG2a kappa Isotype Control (left) or Fcγ3 (clone PCH101, right) using the Fcγ3/Transcription Factor Staining Buffer Set and protocol. Lymphocytes in the CD3+ gate were used for analysis. {RE}

### FOXP3 Antibody (17-4776-41) in Flow

Surface staining of normal human peripheral blood cells with Anti-Human CD4 FITC (Product # 11-0049-42) followed by intracellular staining with Rat IgG2a K Isotype Control APC (Product # 17-4321-81) (left) or Anti-Human Fcγ3 APC (right) using Fcγ3/Transcription Factor Staining Buffers (Product # 00-5523-00).

## Immunohistochemistry (1)

Science translational medicine

### Inducing CTLA-4-dependent immune regulation by selective CD28 blockade promotes regulatory T cells in organ transplantation.

"17-4776 was used in Immunohistochemistry to suggest that targeting costimulation blockade at CD28 favors CTLA-4-dependent immune regulation and promotes allograft survival."

Authors: Poirier N,Azimzadeh AM,Zhang T,Dilek N,Mary C,Nguyen B,Tillou X,Wu G,Reneaudin K,Hervouet J,Martinet B,Coulon F,Allain-Launay E,Karam G,Souillou JP,Pierson RN,Biancho G,Vanhove B

Year  
2010

Species  
Non-human  
primate

## Immunohistochemistry (Paraffin) (1)

Blood

### Mucosal but not peripheral FOXP3+ regulatory T cells are highly increased in untreated HIV infection and normalize after suppressive HAART.

Authors: Epple HJ,Loddenkemper C,Kunkel D,Tröger H,Maul J,Moos V,Berg E,Ullrich R,Schulzke JD,Stein H,Duchmann R,Zeit M,Schneider T

Year  
2006

## Flow Cytometry (116)

Frontiers in oncology

### Low-density lipoprotein balances T cell metabolism and enhances response to anti-PD-1 blockade in a HCT116 spheroid model.

"17-4776-42 was used in Flow cytometry/Cell sorting to investigate the effect of LDL on T cell activation and tumor immunity in-vitro."

Authors: Babl N,Hofbauer J,Matos C,Voll F,Menevse AN,Rechenmacher M,Mair R,Beckhove P,Herr W,Siska PJ,Renner K,Kreutz M,Schnell A

Year  
2023

Species  
Human

Frontiers in immunology

### Level of interleukin-35 in patients with idiopathic membranous nephropathy and its predictive value for remission time.

"17-4776-42 was used in Flow cytometry/Cell sorting to clarify the relationship between IL-35 and disease activity and remission of idiopathic membranous nephropathy."

Authors: Zhang N,Dai H,Dong X,Liu W,Jiang H,Zhao Q,Gao Y,Feng Z,Dong Z,Hu Y,Huang G,Rui H,Liu B

Year  
2022

Species  
Human

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

## More applications with references on thermofisher.cn

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