

FOXP3 Monoclonal Antibody (PCH101), Biotin, eBioscience™

Product Details

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|-----------------------------|--|
| Size | 100 µg |
| Species Reactivity | Chimpanzee, Cynomolgus monkey, Human, Non-human primate, Rhesus monkey |
| Published Species | Human |
| Host/Isotype | Rat / IgG2a, kappa |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), Biotin, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | PCH101 |
| 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_763539 |

| Applications | Tested Dilution | Publications |
|---|-----------------|-----------------|
| Western Blot (WB) | Assay-Dependent | 1 Publication |
| Immunohistochemistry (IHC) | - | 15 Publications |
| Immunohistochemistry (Paraffin) (IHC (P)) | Assay-Dependent | 2 Publications |
| Immunohistochemistry (Frozen) (IHC (F)) | Assay-Dependent | - |
| Flow Cytometry (Flow) | 0.25 µg/test | 42 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⁺ 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⁺CD25⁺ regulatory T cells (Treg cells), and ectopic expression of foxp3 in CD4⁺CD25⁻ 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⁺bright population. This is subject to donor variability.

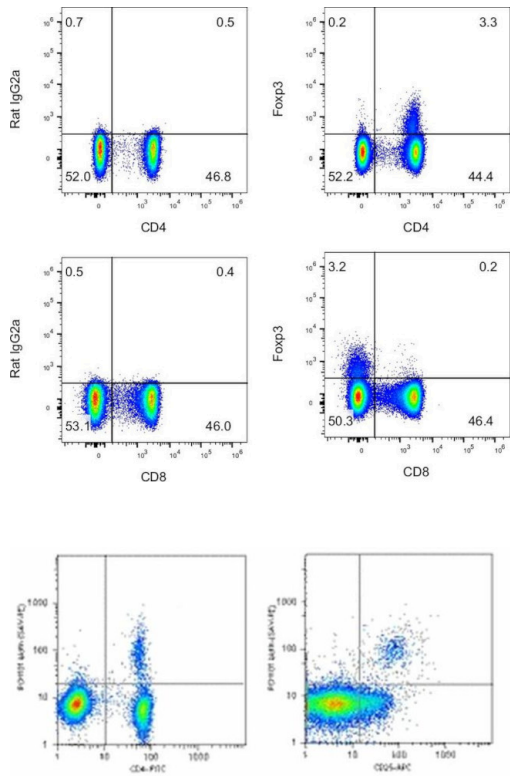
PCH101 crossreacts with rhesus, chimpanzee and cynomolgus. We recommend the use of CD4 (OKT4, Product # 11-0048-42, or RPA-T4, Product # 11-0049-42, depending on the species) and CD25 (BC96, Product # 17-0259-42).

Applications Reported: This PCH101 antibody has been reported for use in intracellular staining followed by flow cytometric analysis, western blotting, immunohistochemical staining of frozen and formalin-fixed paraffin embedded tissue sections.

Applications Tested: This PCH101 antibody has been tested by intracellular flow cytometric analysis of normal human peripheral blood cells using the Fcγ3/Transcription Factor Staining Buffer Set (Product # 00-5523) and protocol. Please see Best Protocols Section (Staining intracellular Antigens for Flow Cytometry) for staining protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This antibody can be used at less than or equal to 0.25 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. 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 FOXP3 Monoclonal Antibody (PCH101), Biotin, eBioscience™



FOXP3 Antibody (13-4776-82)

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 (13-4776-82) in Flow

Surface staining of normal human peripheral blood cells with Anti-Human CD4 FITC (Product # 11-0049-42) (left) and Anti-Human CD25 APC (Product # 17-0259-42) (right), followed by intracellular staining with 0.25 µg of Anti-Human Fcγ3 Biotin or Rat IgG2a K Isotype Control Biotin (Product # 13-4321-82) followed by Streptavidin PE (Product # 12-4317-87) using the Fcγ3/Transcription Factor Staining Buffer Set (Product # 00-5523-00). Cells in the lymphocyte gate were used for analysis.

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Western Blot (1)

Nature immunology

Glycolysis controls the induction of human regulatory T cells by modulating the expression of FOXP3 exon 2 splicing variants.

"Published figure using FOXP3 monoclonal antibody (Product # 13-4776-82) in Western Blot"

Authors: De Rosa V, Galgani M, Porcellini A, Colamatteo A, Santopalo M, Zuchegna C, Romano A, De Simone S, Procaccini C, La Rocca C, Carrieri PB, Maniscalco GT, Salvetti M, Buscarinu MC, Franzese A, Mozzillo E, La Cava A, Matarese G

Year
2015

Immunohistochemistry (15)

Neural regeneration research

VX-765 reduces neuroinflammation after spinal cord injury in mice.

"Published figure using FOXP3 monoclonal antibody (Product # 13-4776-82) in Immunohistochemistry"

Authors: Chen J, Chen YQ, Shi YJ, Ding SQ, Shen L, Wang R, Wang QY, Zha C, Ding H, Hu JG, Lü HZ

Year
2021

NPJ breast cancer

Unmasking the immune microecology of ductal carcinoma in situ with deep learning.

"Published figure using FOXP3 monoclonal antibody (Product # 13-4776-82) in Immunohistochemistry"

Authors: Narayanan PL, Raza SEA, Hall AH, Marks JR, King L, West RB, Hernandez L, Guppy N, Dowsett M, Gusterson B, Maley C, Hwang ES, Yuan Y

Year
2021

[View more IHC references on thermofisher.com](#)

Immunohistochemistry (Paraffin) (2)

Journal of immunotherapy (Hagerstown, Md. : 1997)

The vaccine-site microenvironment induced by injection of incomplete Freund's adjuvant, with or without melanoma peptides.

"Published figure using FOXP3 monoclonal antibody (Product # 13-4776-82) in Immunohistochemistry"

Authors: Harris RC, Chianese-Bullock KA, Petroni GR, Schaefer JT, Brill LB, Molhoek KR, Deacon DH, Patterson JW, Slingluff CL

Year
2012

More applications with references on thermofisher.com

Flow (42)

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