

FOXP3 Monoclonal Antibody (PCH101), Alexa Fluor 700, eBioscience™

Product Details

Size	25 Tests
Species Reactivity	Chimpanzee, Cynomolgus Monkey, Human, Non-human primate, Rhesus monkey
Published Species	Human
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Alexa Fluor 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PCH101
Conjugate	Alexa Fluor® 700
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1582210

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	27 Publications
Immunofluorescence (IF)	-	3 Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication

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, cat. 11-0048, or RPA-T4, cat. 11-0049, depending on the species) and CD25 (BC96, cat. 17-0259).

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

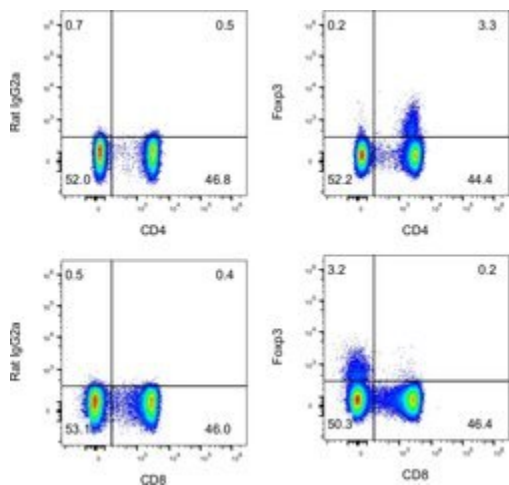
Applications Tested: This PCH101 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of normal human peripheral blood cells using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. Please refer to Best Protocols: Protocol B: One step protocol for (nuclear) intracellular proteins located under the Resources Tab online. This can be used at 5 μ L (.5 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

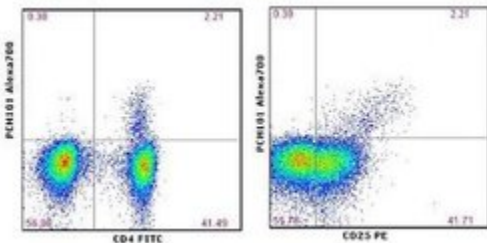
Advanced Verification Data



FOXP3 Antibody (56-4776-41)

Intracellular staining of human peripheral blood cells. As expected based on known relative expression patterns, Fop3 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 Fop3 (clone PCH101, right) using the Fop3/Transcription Factor Staining Buffer Set and protocol. Lymphocytes in the CD3+ gate were used for analysis. Relative expression validation info.

Product Images For FOXP3 Monoclonal Antibody (PCH101), Alexa Fluor 700, eBioscience™



FOXP3 Antibody (56-4776-41) in Flow

Normal human peripheral blood cells were surface stained with Anti-Human CD4 FITC (Product # 11-0049-42) (left) and Anti-Human CD25 PE (Product # 12-0259-80) (right) then fixed and permeabilized using the Fop3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and subsequently stained with Anti-Human Fop3 Alexa Fluor® 700. Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

Flow Cytometry (27)

Cancer cell

Fc Effector Function Contributes to the Activity of Human Anti-CTLA-4 Antibodies.

"Published figure using FOXP3 monoclonal antibody (Product # 56-4776-41) in Flow Cytometry"

Authors: Arce Vargas F, Furness AJS, Litchfield K, Joshi K, Rosenthal R, Ghorani E, Solomon I, Lesko MH, Ruef N, Roddie C, Henry JY, Spain L, Ben Aissa A, Georgiou A, Wong YNS, Smith M, Strauss D, Hayes A, Nicol D, O'Brien T, Mårtensson L, Ljungars A, Teige I, Frendeus B, Pule M, Marafioti T, Gore M, Larkin J, Turajlic S, Swanton C, Peggs KS, Quezada SA

Species
Not Applicable

Dilution
Not Cited

Year
2018

Nature communications

IL-6 receptor blockade corrects defects of XIAP-deficient regulatory T cells.

"Published figure using FOXP3 monoclonal antibody (Product # 56-4776-41) in Flow Cytometry"

Authors: Hsieh WC, Hsu TS, Chang YJ, Lai MZ

Species
Not Applicable

Dilution
Not Cited

Year
2018

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

Immunohistochemistry (4)

Breast cancer research : BCR

Tumor-infiltrating immune cell profiles and their change after neoadjuvant chemotherapy predict response and prognosis of breast cancer.

"Published figure using FOXP3 monoclonal antibody (Product # 56-4776-41) in Immunohistochemistry"

Authors: García-Martínez E, Gil GL, Benito AC, González-Billalabeitia E, Conesa MA, García García T, García-Garre E, Vicente V, Ayala de la Peña F

Species
Not Applicable

Dilution
Not Cited

Year
2014

Human reproduction (Oxford, England)

Induction of endometriosis alters the peripheral and endometrial regulatory T cell population in the non-human primate.

"Published figure using FOXP3 monoclonal antibody (Product # 56-4776-41) in Immunohistochemistry"

Authors: Braundmeier A, Jackson K, Hastings J, Koehler J, Nowak R, Fazleabas A

Species
Not Applicable

Dilution
Not Cited

Year
2012

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

More applications with references on thermofisher.com

IF (3) IHC (P) (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.