FOXP3 Monoclonal Antibody (PCH101), eFluor™ 450, eBioscience™

Product Details

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Size	100 Tests
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), eFluor™ 450, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	PCH101
Conjugate	eFluor™ 450
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_1834364

Applications	Tested Dilution	Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 μL (0.5 μg)/test	16 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, cat. 11-0048, or RPA-T4,

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

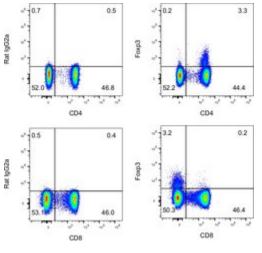
Applications Reported: This PCH101 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This PCH101 antibody has been pre-titrated and tested by intracellular staining and by flow cytometric analysis using the Foxp3/Transcription Factor Staining Buffer Set (cat. 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 5 μ L (0.5 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.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

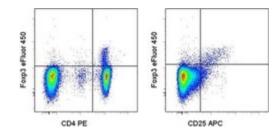


O Advanced Verification Data

FOXP3 Antibody (48-4776-42)

Intracellular staining of human peripheral blood cells. As expected based on known relative expression patterns, Foxp3 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 Foxp3 (clone PCH101, right) using the Foxp3/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), eFluor™ 450, eBioscience™



FOXP3 Antibody (48-4776-42) in Flow

Surface staining of normal human peripheral blood cells with Anti-Human CD4 PE (Product # 12-0049-42) (left) or Anti-Human CD25 APC (Product # 17-0259-42) (right) followed by fixation and permeabilization with the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and intracellular staining with Anti-Human Foxp3 eFluor® 450. Cells in the lymphocyte gate were used for analysis.

□ 18 References

Immunohistochemistry (Paraffin) (1)

Blood	Species Not Applicable Dilution Not Cited
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,Zeitz M,Schneider T	Year 2006
nmunocytochemistry (1)	
PloS one	Species
Protection against bronchiolitis obliterans syndrome is associated with	Human
allograft CCR7+ CD45RA- T regulatory cells.	Dilution
"48-4776 was used in Flow cytometry/Cell sorting to hypothesize that frequencies of Treg in bronchoalveolar lavage fluid after lung transplantation would predict subsequent development of bronchiolitis obliterans syndrome."	Not Cited
Authors: Gregson AL,Hoji A,Palchevskiy V,Hu S,Weigt SS,Liao E,Derhovanessian A,Saggar R,Song S,Elashoff R,Yang OO,Belperio JA	Year 2010
low Cytometry (16)	Question
Nature immunology	Species Human
A regulatory T cell Notch4-GDF15 axis licenses tissue inflammation in asthma.	Dilution
astining. "48-4776 was used in Flow cytometry/Cell sorting to find that interleukin-6- and STAT3 transcription factor-dependent	1:200
upregulation of Notch4 receptor on lung tissue regulatory T (Treg) cells is necessary for allergens and particulate matter	Year
pollutants to promote airway inflammation." Authors: Harb H,Stephen-Victor E,Crestani E,Benamar M,Massoud A,Cui Y,Charbonnier LM,Arbag S,Baris S, Cunnigham A,Leyva-Castillo JM,Geha RS,Mousavi AJ,Guennewig B,Schmitz-Abe K,Sioutas C,Phipatanakul W,Chatila TA	2020
Cell reports	Species
Clusters of Tolerogenic B Cells Feature in the Dynamic Immunological	Human
Landscape of the Pregnant Uterus.	Dilution Not Cited
"48-4776-42 was used in Flow Cytometry to suggest a role for B cells in healthy pregnancy."	NOT CITED
Authors: Benner M, Feyaerts D, García CC, Inci N, López SC, Fasse E, Shadmanfar W, van der Heijden OWH, Gorris MAJ,	

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