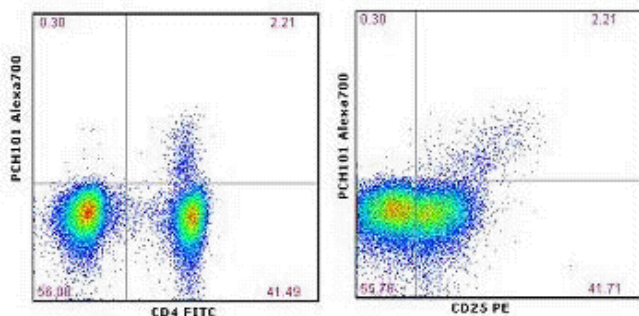


Anti-Human Foxp3 Alexa Fluor[®] 700

Catalog Number: 56-4776

Also Known As: Forkhead Box P3, Scurfin, JM2, Treg

RUO: For Research Use Only. Not for use in diagnostic procedures.



Normal human peripheral blood cells were surface stained with Anti-Human CD4 FITC (cat. 11-0049) (left) and Anti-Human CD25 PE (cat. 12-0259) (right) then fixed and permeabilized using the Foxp3 Staining Buffers (cat. 00-5523 and subsequently stained with Anti-Human Foxp3 Alexa Fluor[®] 700. Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human Foxp3 Alexa Fluor[®] 700


REF **Catalog Number:** 56-4776

Clone: PCH101


Concentration: 5 µL (0.5 µg)/test

Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

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. Please contact tech@ebioscience.com or 888.810.6168 for any additional assistance.

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

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

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 human peripheral blood leukocytes using the Foxp3 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 µl (0.5 µg)/per test. A test is defined as the amount (µg)/test 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.

Special Notes

Please see the following link for FAQ regarding the usage of eBioscience Foxp3 reagents:
<http://www.ebioscience.com/ebioscience/Foxp3FAQs.htm>

The staining protocol has been optimized with Ficoll prepped PBMCs. The use of lysed whole blood is not recommended.

It is critical that this antibody be used in conjunction with the Foxp3 Staining Buffers (cat 00-5523) for flow cytometric analysis.

References

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Related Products

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

11-0049 Anti-Human CD4 FITC (RPA-T4)

12-0259 Anti-Human CD25 PE (BC96)

14-4774 Anti-Foxp3 Purified (150D/E4)

56-4321 Rat IgG2a K Isotype Control Alexa Fluor® 700 (eBR2a)

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