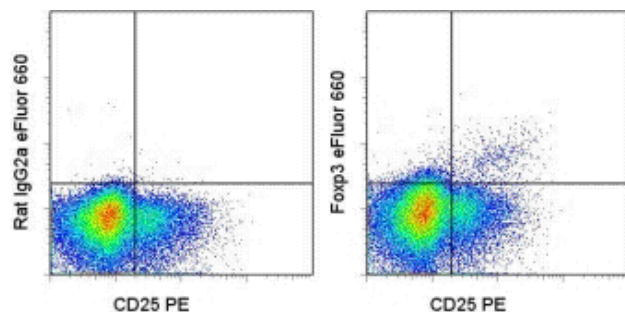


Anti-Human Foxp3 eFluor® 660 (Alexa Fluor® 647 Replacement)

Catalog Number: 50-4776

Also Known As: Forkhead Box P3, Scurfin, JM2

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



Staining of normal human peripheral blood cells with Anti-Human CD25 PE (cat. 12-0259), followed by intracellular staining with Rat IgG2a K Isotype Control eFluor® 660 (cat. 50-4321) (left) or Anti-Human Foxp3 eFluor® 660 (right) using the Foxp3 staining buffers (cat. 00-5521). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human Foxp3 eFluor® 660 (Alexa Fluor® 647 Replacement)

REF **Catalog Number:** 50-4776

Clone: PCH101

Concentration: 5 µL (0.25 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

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

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 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 (0.25 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.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

References

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Related Products

00-5521 Foxp3 Fixation/Permeabilization Concentrate and Diluent

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

11-0048 Anti-Human CD4 FITC (OKT4 (OKT-4))

12-0259 Anti-Human CD25 PE (BC96)

50-4321 Rat IgG2a K Isotype Control eFluor® 660 (eBR2a)

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