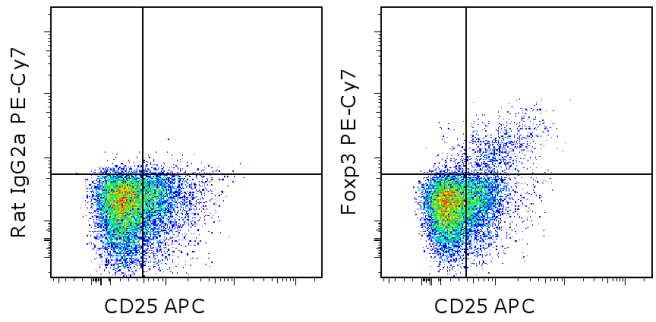
Anti-Human Foxp3 PE-Cyanine7

Catalog Number: 25-4776
Also known as: Forkhead Box P3, Scurfin, JM2, Treg
RUO: For Research Use Only. Not for use in diagnostic procedures.



Intracellular staining of normal human peripheral blood cells with Anti-Human/Non-Human Primate CD25 PerCP-eFluor® 710 (cat. 46-0257) and Rat IgG2a K Isotype Control PE-Cyanine7 (cat. 25-4321) (left) or Anti-Human Foxp3 PE-Cyanine7 (right) using the Foxp3 Staining Buffer Set (cat. 00-5523). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human Foxp3 PE-Cyanine7
REF **Catalog Number:** 25-4776
Clone: PCH101
Concentration: 5 uL (0.125 ug)/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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial
Contains sodium 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

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 Buffer Set (cat. 00-5523). Please see Best

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Protocols Section (Staining Intracellular Antigens for Flow Cytometry) for staining protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This can be used at 5 µL (0.125 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 10^5 to 10^8 cells/test.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

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Related Products
00-5523 Foxp3 / Transcription Factor Staining Buffer Set
17-0048 Anti-Human CD4 APC (OKT4 (OKT-4))
46-0257 Anti-Human/Non-Human Primate CD25 PerCP-eFluor® 710 (CD25-4E3)

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