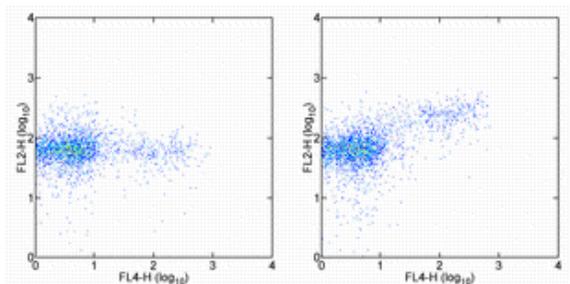


## Anti-Foxp3 PE

Catalog Number: 12-4774

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

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



Surface staining of C57BL/6 splenocytes with Anti-Mouse CD25 APC (cat. 17-0251) followed by Fixation and Permeabilization with the Foxp3 Buffer Set (cat. 00-5523). Cells were subsequently stained with Mouse IgG1 K Isotype Control PE (cat. 12-4714) (left) or Anti-Foxp3 PE (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

Contents: Anti-Foxp3 PE

**REF** Catalog Number: 12-4774

Clone: 150D/E4

Concentration: 5  $\mu$ L (0.5  $\mu$ g)/test

Host/Isotype: Mouse IgG1, 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

 Contains sodium azide

### Description

eBioscience offers a panel of monoclonal antibodies to different epitopes of human/primate and mouse/rat Foxp3 protein, providing useful tools for investigating the complete expression pattern of Foxp3 at the protein level, and discerning the precise subsets of Foxp3+ cells. Other antibodies to Foxp3 available from eBioscience, which have been used significantly in scientific literature, include the anti-human Foxp3 PCH101 (cat. 72-5776) and eBio7979 (cat. 12-7979), and the anti-mouse/rat Foxp3 FJK-16s (cat. 72-5775). The 150D/E4 has been mapped to the splice region in Exon 2 found in human cells. The splicing of this region has not been shown to occur in mouse. Characterization of this antibody to the splice variant has been limited to epitope mapping. It should be noted that other antibodies such as PCH101 and 236A/E7 will recognize both the spliced and full length forms of the Foxp3 protein and stain more intensely than 150D/E4 and FJK-16s in human cells.

The 150D/E4 antibody reacts with mouse/rat/human Foxp3 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.

### Applications Reported

This 150D/E4 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

### Applications Tested

This 150D/E4 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of mouse splenocytes using the Foxp3 Buffer Set (cat. 00-5523) and protocol. Refer to Best Protocols- (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This can be used at 5  $\mu$ L (0.5  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

### References

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Hori, S., Nomura, T., Sakaguchi, S. Control of regulatory T cell development by the transcription factor Foxp3. *Science*. 2003 299(5609):1057-61.

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Sakaguchi, S. 2003. The origin of FOXP3-expressing CD4+ regulatory T cells: thymus or periphery. J Clin Invest. 112(9):1310-2. Sakaguchi, S. 2003. The origin of FOXP3-expressing CD4+ regulatory T cells: thymus or periphery. J Clin Invest. 112(9):1310-2.

Related Products

00-5523 Foxp3 / Transcription Factor Staining Buffer Set  
12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.1)  
12-4776 Anti-Human Foxp3 PE (PCH101)  
12-4777 Anti-Human Foxp3 PE (236A/E7)  
12-5773 Anti-Mouse/Rat Foxp3 PE (FJK-16s)  
17-0251 Anti-Mouse CD25 APC (PC61.5)  
48-0049 Anti-Human CD4 eFluor® 450 (RPA-T4)

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