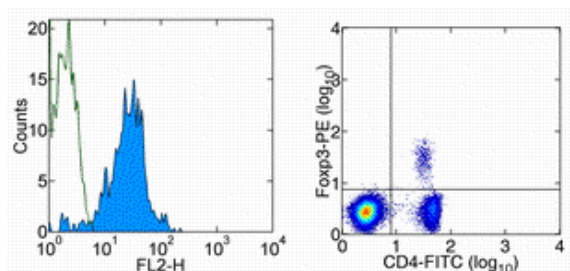


## Anti-Mouse/Rat Foxp3 PE

**Catalog Number:** 12-5773

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

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



Staining of BALB/c splenocytes with Anti-Mouse CD4 FITC (cat. 11-0042) and Anti-Mouse CD25 APC (cat. 17-0251) followed by 0.5ug of Rat IgG2a K Isotype Control PE (cat. 12-4321) (open histogram) or Anti-Mouse/Rat Foxp3 PE (filled histogram) using the Anti-Mouse/Rat Foxp3 PE Staining Set (cat. 72-5775). The dot plot demonstrates co-staining of CD4 and Foxp3. Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Mouse/Rat Foxp3 PE

**REF** **Catalog Number:** 12-5773

**Clone:** FJK-16s

**Concentration:** 0.2 mg/ml

**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

The FJK-16s antibody reacts with mouse, rat, dog, porcine, bovine and cat 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.

Immunoblotting with FJK-16s antibody has mapped the epitope to amino acids 75-125 of the mouse Foxp3 protein. In the human, this region has been shown to be alternatively spliced at the mRNA level. Both the alternatively-spliced and non-spliced isoforms are present in the CD4+CD25+ subset of lymphocytes. Preliminary RT-PCR experiments have not revealed this alternatively-spliced isoform in mouse splenocytes, suggesting different gene regulation in the mouse and human.

### Applications Reported

This FJK-16s antibody has been reported for use in intracellular flow cytometric analysis.

### Applications Tested

This FJK-16s antibody has been tested by intracellular flow cytometric analysis of mouse splenocytes using the PE anti-mouse Foxp3 Staining Set (cat. 72-5775) and protocol. Please refer to Intracellular Staining Protocol on Best Protocol web page - Protocol B: One-step protocol for intracellular (nuclear) proteins. This antibody can be used at less than or equal to 1 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

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Suvas S, Azkur AK, Rouse BT. Qa-1b and CD94-NKG2a interaction regulate cytolytic activity of herpes simplex virus-specific memory CD8+ T cells in the latently infected trigeminal ganglia. *J Immunol.* 2006 Feb 1;176(3):1703-11. (**FJK-16s**, ICC)

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#### **Related Products**

00-5521 Foxp3 Fixation/Permeabilization Concentrate and Diluent

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

11-0042 Anti-Mouse CD4 FITC (RM4-5)

12-4321 Rat IgG2a K Isotype Control PE (eBR2a)

17-0251 Anti-Mouse CD25 APC (PC61.5)

71-5776 Anti-Human Foxp3 Staining Set FITC (PCH101 Set)

72-5775 Anti-Mouse/Rat Foxp3 Staining Set PE (FJK-16s)

72-5776 Anti-Human Foxp3 Staining Set PE (PCH101 Set)

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