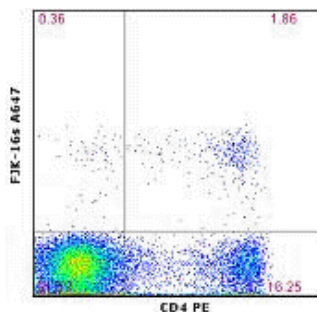


Anti-Mouse/Rat Foxp3 Alexa Fluor® 647 (To Be Discontinued. Refer to Cat. No. 50-5773)

Catalog Number: 51-5773

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

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



Intracellular staining of BALB/c splenocytes were Anti-Mouse CD4 PE (cat. 12-0042) and 0.5 ug of Anti-Mouse Foxp3 Alexa Fluor® 647 using the Foxp3 Staining Buffer Set (cat. 00-5523). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse/Rat Foxp3 Alexa Fluor® 647 (To Be Discontinued. Refer to Cat. No. 50-5773)

REF **Catalog Number:** 51-5773

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 staining followed by flow cytometric analysis.

Applications Tested

This FJK-16s antibody has been tested by intracellular staining and flow cytometric analysis of mouse splenocytes using the Foxp3 Buffer Set (cat. 00-5523) 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 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Related Products

00-5521 Foxp3 Fixation/Permeabilization Concentrate and Diluent

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

12-0042 Anti-Mouse CD4 PE (RM4-5)

12-7979 Anti-Human/Mouse Foxp3 PE (Discontinued; Alternative clones: FJK-16s or PCH101) (eBio7979)

51-4321 Rat IgG2a K Isotype Control Alexa Fluor® 647 (eBR2a)

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