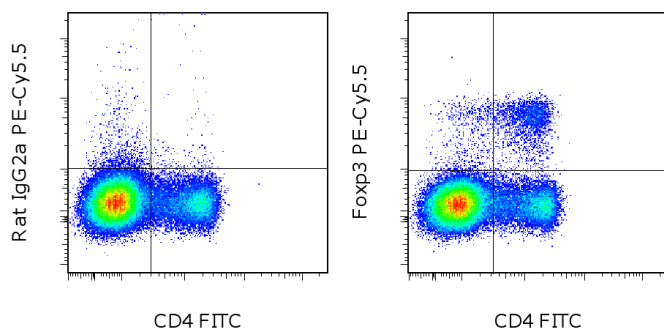


Anti-Mouse/Rat Foxp3 PE-Cyanine5.5

Catalog Number: 35-5773

Also known as: Forkhead Box P3, Scurfin, JM2

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



Staining of mouse splenocytes with Anti-Mouse CD4 FITC (cat. 11-0041) followed by intracellular staining with Rat IgG2a K Isotype Control PE-Cyanine5.5 (cat. 35-4321) (left) or Anti-Mouse Foxp3 PE-Cyanine5.5 (right) using Foxp3/Transcription Factor Staining Buffers (cat. 00-5523). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse/Rat Foxp3 PE-Cyanine5.5

REF **Catalog Number:** 35-5773

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.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium 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 using the Foxp3/Transcription Factor Buffer Set 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 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 10⁶ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Leithäuser F, Meinhardt-Krajina T, Fink K, Wotschke B, Möller P, Reimann J. Foxp3-expressing CD103+ regulatory T cells accumulate in dendritic cell aggregates of the colonic mucosa in murine transfer colitis. *Am J Pathol.* 2006 Jun;168(6):1898-909. **(FJK-16s, IHC paraffin)**

Kohm AP, McMahon JS, Podojil JR, Begolka WS, Degutes M, Kasprovicz DJ, Ziegler SF, Miller SD. Cutting Edge: Anti-CD25 Monoclonal Antibody Injection Results in the Functional Inactivation, Not Depletion, of CD4+CD25+ T Regulatory Cells. *J Immunol.* 2006 Mar 15;176(6):3301-5. **(FJK-16s, IHC Frozen)**

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Hori S, Nomura T, Sakaguchi S. Control of regulatory T cell development by the transcription factor Foxp3. *Science.* 2003 Feb 14;299(5609):1057-61.

Related Products

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

11-0041 Anti-Mouse CD4 FITC (GK1.5)

35-4321 Rat IgG2a K Isotype Control PE-Cyanine5.5 (eBR2a)

48-0251 Anti-Mouse CD25 eFluor® 450 (PC61.5)

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