

# FOXP3 Monoclonal Antibody (FJK-16s), PE-Cyanine5, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Bovine, Dog, Cat, Mouse, Pig, Rat
Published Species	Rat, Hamster, Bovine, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FJK-16s
Conjugate	PE-Cyanine5
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_468806

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	143 Publications

## Product Specific Information

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 'scuffy' (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 staining and flow cytometric analysis of mouse splenocytes using the Foxp3/Transcription Factor Buffer Set (cat. 00-5523) 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 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  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

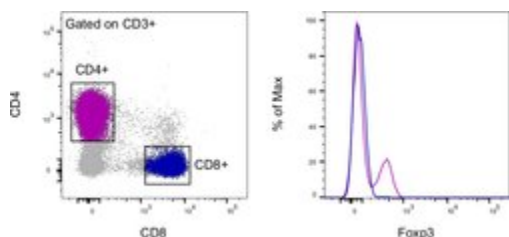
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100  $\mu$ L cell sample + 100  $\mu$ L 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.

Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2  $\mu$ m post-manufacturing filtered.

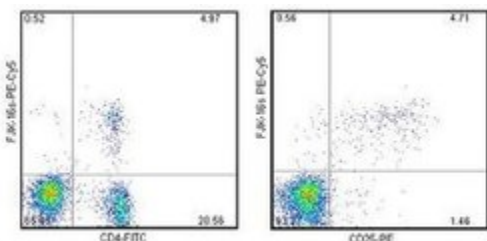
## Advanced Verification Data



### FOXP3 Antibody (15-5773-82)

Intracellular staining of mouse splenocytes. As expected based on known relative expression patterns, Foxp3 clone FJK-16s stains a subset of the CD4+ T cells and does not stain the CD8+ T cells. Details: Balb/c splenocytes were surface stained with CD3 (clone 17A2), CD4 (clone GK1.5) and CD8 (clone 53-6.7), followed by intracellular staining with Foxp3 (clone FJK-16s) using the Foxp3/Transcription Factor Staining Buffer Set and protocol. Lymphocytes in the CD3+CD8+ (blue histogram) and CD3+CD4+ (purple histogram) gates were used for analysis. Relative expression validation info.

## Product Images For FOXP3 Monoclonal Antibody (FJK-16s), PE-Cyanine5, eBioscience™



### FOXP3 Antibody (15-5773-82) in Flow

Mouse (BALB/c) splenocytes were surface-stained with Anti-Mouse CD4 FITC (Product # 11-0041-82) and Anti-Mouse CD25 PE (Product # 12-0251-82), and subsequently with Anti-Mouse/Rat Foxp3 PE-Cyanine5 or Rat IgG2a Isotype Control PE-Cyanine5 (Product # 15-4321-80) using the Foxp3/Transcription Factor Buffer Set (Product # 00-5523-00). The dot plot on the left demonstrates co-staining of CD4 and FJK-16s, while the right plot demonstrates co-staining of CD25 and FJK-16s. Cells in the lymphocyte gate were used for analysis.

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## Flow Cytometry (143)

Frontiers in immunology

### CD4<sup>+</sup> T Cell Fate Decisions Are Stochastic, Precede Cell Division, Depend on G1TR Co-Stimulation, and Are Associated With Uropodium Development.

"Published figure using FOXP3 monoclonal antibody (Product # 15-5773-82) in Flow Cytometry"

Authors: Cobbold SP, Adams E, Howie D, Waldmann H

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2022

Immunity

### Notch4 signaling limits regulatory T-cell-mediated tissue repair and promotes severe lung inflammation in viral infections.

"Published figure using FOXP3 monoclonal antibody (Product # 15-5773-82) in Flow Cytometry"

Authors: Harb H, Benamar M, Lai PS, Contini P, Griffith JW, Crestani E, Schmitz-Abe K, Chen Q, Fong J, Marri L, Filaci G, Del Zotto G, Pishesha N, Kolifirath S, Broggi A, Ghosh S, Gelmez MY, Oktelik FB, Cetin EA, Kiykim A, Kose M, Wang Z, Cui Y, Yu XG, Li JZ, Berra L, Stephen-Victor E, Charbonnier LM, Zanon I, Ploegh H, Deniz G, De Palma R, Chatila TA

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

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