

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

Product Details	
Size	100 µg
Species Reactivity	Bovine, Dog, Cat, Mouse, Pig, Rat
Published Species	Dog, Rat, Pig, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FJK-16s
Conjugate	APC
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_469457

Applications	Tested Dilution	Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	1 µg/test	308 Publications
ChIP assay (ChIP)	-	1 Publication

## 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.

Please note that FJK-16s has been optimized for use with the Foxp3/Transcription Factor Buffer Staining Set (cat. 00-5523). The use of other fixation and staining buffers is not recommended.

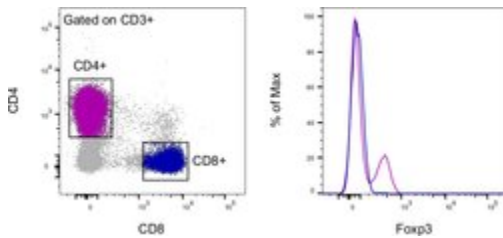
Applications Reported: This FJK-16s antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This FJK-16s antibody has been tested by intracellular staining and flow cytometric analysis of mouse splenocytes using the Foxp3/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 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.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

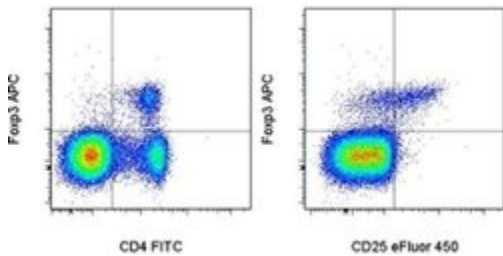
## Advanced Verification Data



### FOXP3 Antibody (17-5773-82)

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), APC, eBioscience™



### FOXP3 Antibody (17-5773-82) in Flow

Staining of mouse splenocytes with Anti-Mouse CD4 FITC (Product # 11-0041-82) (left) and Anti-Mouse CD25 eFluor® 450 (Product # 48-0251-82) (right) followed by intracellular with Anti-Mouse Foxp3 APC using Foxp3/Transcription Factor Staining Buffers (Product # 00-5523-00). Cells in the lymphocyte gate were used for analysis.

## Immunohistochemistry (PFA fixed) (1)

Circulation research

### Regulatory T Cells License Macrophage Pro-Resolving Functions During Atherosclerosis Regression.

"17-5773-80 was used in Immunohistochemistry (PFA fixed) to establish essential roles for Tregs in resolving atherosclerotic cardiovascular disease and provide mechanistic insight into the pathways governing plaque remodeling and regression of disease."

Authors: Sharma M,Schlegel MP,Afonso MS,Brown EJ,Rahman K,Weinstock A,Sansbury BE,Corr EM,van Solingen C,Koelwyn GJ,Shanley LC,Beckett L,Peled D,Lafaille JJ,Spite M,Loke P,Fisher EA,Moore KJ

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

## Immunocytochemistry (2)

Journal of immunology (Baltimore, Md. : 1950)

### Inhibition of Glycolysis in Pathogenic T<sub>H</sub>17 Cells through Targeting a miR -21-Peli1-c-Rel Pathway Prevents Autoimmunity.

"17-5773-82 was used in Immunocytochemistry to investigate if CNS-infiltrated pathogenic TH17 cells from diseased mice specifically upregulate glycolytic pathway genes compared with homeostatic intestinal TH17 cells."

Authors: Qiu R,Yu X,Wang L,Han Z,Yao C,Cui Y,Hou G,Dai D,Jin W,Shen N

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

PLoS one

### Suppression of allograft rejection by Tim-1-Fc through cross-linking with a novel Tim-1 binding partner on T cells.

"17-5773 was used in Immunofluorescence to indicate that Tim-1-Fc can inhibit T-cell responses through an unknown Tim-1 binding partner on T cells."

Authors: Xiao L,Fu ZR,Liu F,Zhang LD,Shi XM,Shen XY,Ni ZJ,Fu H,Li RD,Cao XT,Ding GS,Wang QX

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2011

## Flow Cytometry (308)

Oncoimmunology

### Contrasting impact of corticosteroids on anti-PD-1 immunotherapy efficacy for tumor histologies located within or outside the central nervous system.

"17-5773 was used in Flow cytometry/Cell sorting to determine how corticosteroids influence anti-programmed cell death protein 1 responses and whether their effects are dependent on tumour location within the periphery versus central nervous system."

Authors: Maxwell R,Luksik AS,Garzon-Muvdi T,Hung AL,Kim ES,Wu A,Xia Y,Belcaid Z,Gorelick N,Choi J,Theodros D,Jackson CM,Mathios D,Ye X,Tran PT,Redmond KJ,Brem H,Pardoll DM,Kleinberg LR,Lim M

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2021

[View more Flow references on thermofisher.com](https://thermofisher.com)

## More applications with references on thermofisher.com

## ChIP (1)

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