

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

Product Details	
Size	100 µg
Species Reactivity	Cat, Mouse, Pig, Rat, Bovine, Dog
Published Species	Dog, Rat, Pig, Mouse, Human, Horse
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
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469457

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	1 µg/test	362 Publications
ChIP assay (ChIP)	-	1 Publication
T-Cell Activation (TCA)	-	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 '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.

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.

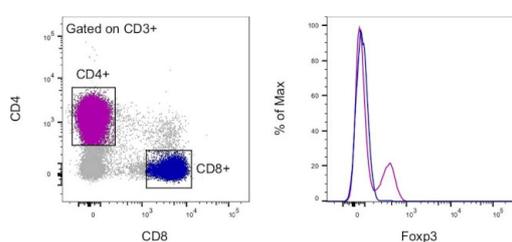
Applications Reported: This FJK-16s antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

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 10⁵ to 10⁸ 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.

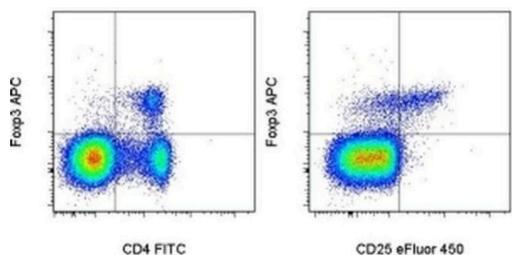
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For FOXP3 Monoclonal Antibody (FJK-16s), APC, eBioscience™



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. {RE}



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 (1)

Immunity

Treg cell-derived osteopontin promotes microglia-mediated white matter repair after ischemic stroke.

"17-5773-82 was used in Immunohistochemistry to reveal Treg cells as a neurorestorative target for stroke recovery."

Authors: Shi L, Sun Z, Su W, Xu F, Xie D, Zhang Q, Dai X, Iyer K, Hitchens TK, Foley LM, Li S, Stolz DB, Chen K, Ding Y, Thomson AW, Leak RK, Chen J, Hu X

Year
2021

Species
Mouse

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

Year
2020

Species
Mouse

Immunohistochemistry (Frozen) (1)

The Journal of experimental medicine

Dendritic cell-expanded, islet-specific CD4+ CD25+ CD62L+ regulatory T cells restore normoglycemia in diabetic NOD mice.

"17-5773-82 was used in immunohistochemistry (frozen) to investigate whether dendritic cell-expanded islet antigen-specific CD4+ CD25+ suppressor T cells could treat diabetes at later stages of disease."

Authors: Tarbell KV, Petit L, Zuo X, Toy P, Luo X, Mqadmi A, Yang H, Suthanthiran M, Mojsov S, Steinman RM

Year
2007

Species
Mouse

Immunocytochemistry (2)

Journal of immunology (Baltimore, Md. : 1950)

Inhibition of Glycolysis in Pathogenic T_H17 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

Year
2020

Species
Mouse

More applications with references on thermofisher.com

Flow (362)

ChIP (1)

TCA (1)

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