

FOXP3 Monoclonal Antibody (FJK-16s), eFluor™ 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Bovine, Dog, Cat, Mouse, Pig, Rat
Published Species	Rat, Bacteria, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FJK-16s
Conjugate	eFluor™ 450
Excitation/Emission Max	405/445 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_1518812

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 µg/test	96 Publications
ELISA (ELISA)	-	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 (Product # 00-5523-00). 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 using Foxp3 buffers of mouse splenocytes using Foxp3/Transcription Factor Buffer Set (Product # 00-5523-00) 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 0.06 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.

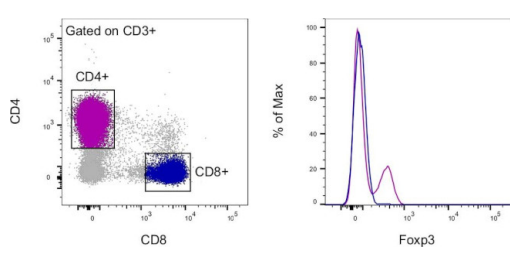
eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorocho

me.

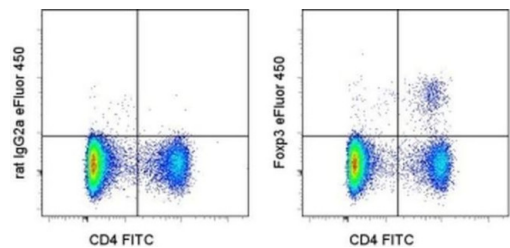
Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For FOXP3 Monoclonal Antibody (FJK-16s), eFluor™ 450, eBioscience™



FOXP3 Antibody (48-5773-82)
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 (48-5773-82) in Flow
Surface staining of C57BL/6 splenocytes with Anti-Mouse CD4 FITC (Product # 11-0041-82) followed by fixation and permeabilization with the Foxp3 Staining Buffers (Product # 00-5523-00) and intracellular staining with 0.03 µg of Rat IgG2a kappa Isotype Control eFluor® 450 (Product # 48-4321-82) (left) or 0.03 µg of Anti-Mouse/Rat Foxp3 eFluor® 450 (right). Cells in the lymphocyte gate were used for analysis.

Flow Cytometry (96)

iScience Ischemic Stroke Impacts the Gut Microbiome, Ileal Epithelial and Immune Homeostasis. "48-5773-82 was used in Flow cytometry/Cell sorting to provide a comprehensive overview of stroke-induced intestinal dysbiosis and unveil responsive gene programming within iECs with implications for disease development." Authors: Ge Y,Zadeh M,Yang C,Candelario-Jalil E,Mohamadzadeh M	Year 2022 Species Mouse
Cell reports Engineered human cytokine/antibody fusion proteins expand regulatory T cells and confer autoimmune disease protection. "48-5773-82 was used in Flow cytometry/Cell sorting to provide a roadmap for IC design and establish a Treg-biased immunotherapy that could be clinically translated for autoimmune disease treatment." Authors: VanDyke D,Iglesias M,Tomala J,Young A,Smith J,Perry JA,Gebara E,Cross AR,Cheung LS,Dykema AG, Orcutt-Jahns BT,Henclová T,Golias J,Balolong J,Tomasovic LM,Funda D,Meyer AS,Pardoll DM,Hester J,Issa F,Hunter CA,Anderson MS,Bluestone JA,Raimondi G,Spangler JB	Year 2022 Species Mouse Dilution 1:50

[View more Flow references on thermofisher.cn](#)

ELISA (1)

Journal of immunotherapy (Hagerstown, Md. : 1997) High-avidity autoreactive CD4+ T cells induce host CTL, overcome T (regs) and mediate tumor destruction. "48-5773 was used in an ELISpot assay to develop a model of melanoma immunotherapy focused on the exploitation of high-avidity CD4+ T cells that become generated in germline antigen-deficient mice." Authors: Brandmaier AG,Leitner WW,Ha SP,Sidney J,Restifo NP,Touloukian CE	Year 2009 Species Mouse
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More applications with references on thermofisher.cn

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