

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

Product Details	
Size	100 µg
Species Reactivity	Bovine, Dog, Cat, Mouse, Pig, Rat
Published Species	Dog, Rat, Pig, Cat, Mouse, Human, Horse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FJK-16s
Conjugate	PE
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_465936

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	5 Publications
Flow Cytometry (Flow)	1 µg/test	407 Publications
Functional Assay (FN)	-	1 Publication
In vitro Assay (IV)	-	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.

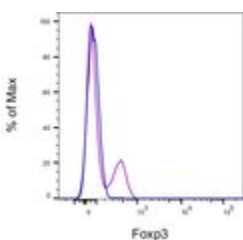
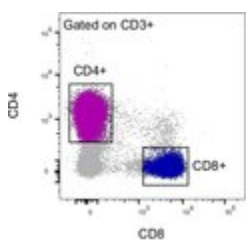
Applications Reported: This FJK-16s antibody has been reported for use in intracellular flow cytometric analysis.

Applications Tested: This FJK-16s antibody has been tested by intracellular flow cytometric analysis of mouse splenocytes using the Foxp3/Transcription Factor Staining 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: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

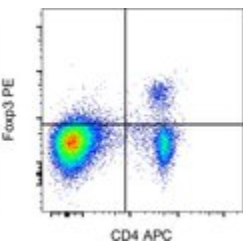
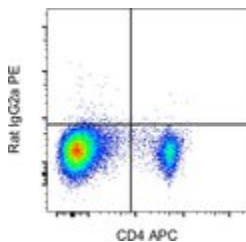
Advanced Verification Data



FOXP3 Antibody (12-5773-82)

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, eBioscience™



FOXP3 Antibody (12-5773-82) in Flow

C57BL/6 mouse splenocytes were stained intracellularly, using the Foxp3 /Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol, with CD4 Monoclonal Antibody, APC (Product # 17-0042-82) and 0.5 µg of Rat IgG2a kappa Isotype Control, PE (Product # 12-4321-82) (left) or 0.5 µg of Foxp3 Monoclonal Antibody, PE (right). Cells in the lymphocyte gate were used for analysis.

Western Blot (1)

Reproduction (Cambridge, England)

Potential immunomodulatory role of VIP in the implantation sites of prediabetic nonobese diabetic mice.

"12-5773 was used in Flow cytometry/Cell sorting to explore the participation of vasoactive intestinal peptide in the implantation sites of normal and pregnant prediabetic nonobese diabetic female mice."

Authors: Roca V, Calafat M, Larocca L, Ramhorst R, Farina M, Franchi AM, Leirós CP

Species
Mouse

Dilution
Not Cited

Year
2009

Immunohistochemistry (4)

PloS one

Anthocyanin Extracted from Black Soybean Seed Coats Prevents Autoimmune Arthritis by Suppressing the Development of Th17 Cells and Synthesis of Proinflammatory Cytokines by Such Cells, via Inhibition of NF-B.

"12-5773 was used in Immunofluorescence to investigate the anti-arthritis effects of anthocyanin extracted from black soybean seed coats in both murine and human cells."

Authors: Min HK, Kim SM, Baek SY, Woo JW, Park JS, Cho ML, Lee J, Kwok SK, Kim SW, Park SH

Species
Mouse

Dilution
Not Cited

Year
2016

Transplantation

Interleukin-10 From Marginal Zone Precursor B-Cell Subset Is Required for Costimulatory Blockade-Induced Transplantation Tolerance.

"12577382 was used in flow cytometry and immunohistochemistry to determine if specific B cell subsets or if B cell-derived interleukin-10 contributes to tolerance"

Authors: Lal G, Nakayama Y, Sethi A, Singh AK, Burrell BE, Kulkarni N, Brinkman CC, Iwami D, Zhang T, Bromberg JS

Species
Mouse

Dilution
Not Cited

Year
2015

[View more IHC references on thermofisher.com](#)

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.

"12-5773 was used in Flow cytometry/Cell sorting 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

Species
Mouse

Dilution
Not Cited

Year
2007

More applications with references on thermofisher.com

ICC/IF (5)

Flow (407)

FN (1)

IV (1)

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