

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

Product Details	
Size	100 µg
Species Reactivity	Bovine, Dog, Cat, Mouse, Pig, Rat
Published Species	Rat, Pig, Cat, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FJK-16s
Conjugate	FITC
Form	Liquid
Concentration	0.5 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_465243

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	8 Publications
Flow Cytometry (Flow)	1 µg/test	154 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.

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.

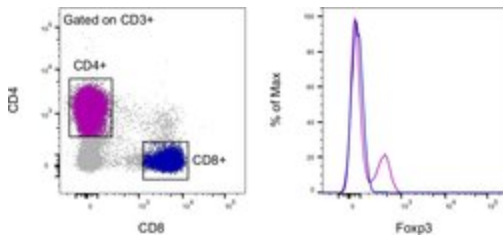
Applications Reported: This FJK-16s antibody has been reported for use in intracellular flow cytometric analysis. For optimal staining with FJK-16s, it is highly recommended to use the Anti-Mouse/Rat Foxp3 FITC Staining Set (cat. 71-5775). FJK-16s has also been reported for use in immunohistochemical staining of frozen tissue sections.

Applications Tested: This FJK-16s antibody has been tested by intracellular flow cytometric analysis of mouse splenocytes using the Anti-Mouse Foxp3 FITC Staining Set (cat. 71-5775) and protocol. Please refer to intracellular Staining Protocol on Best Protocol web page - 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 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

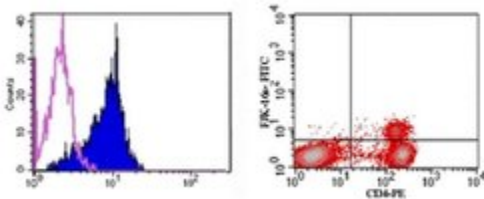
✓ Advanced Verification Data



FOXP3 Antibody (11-5773-82)

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), FITC, eBioscience™



FOXP3 Antibody (11-5773-82) in Flow

Surface staining of BALB/c splenocytes with Anti-Mouse CD4 PE (Product # 12-0042-82) and Anti-Mouse CD25 APC (Product # 17-0251-82), and subsequently fixed and permeabilized using the Foxp3 Staining Buffers (Product # 00-5523-00) and stained with 1.0 µg of Rat IgG2a K Isotype Control FITC (Product # 11-4321-42) or 1.0 µg of Anti-Mouse/Rat Foxp3 FITC. The histogram (left) demonstrates Foxp3 staining (filled histogram) or isotype control staining (open histogram) after gating on CD4+CD25+ cells. The dot plot (right) demonstrates co-staining of CD4 and Foxp3. Cells in the lymphocyte gate were used for analysis.

Immunohistochemistry (2)

Cancer immunology research

Decitabine Enhances Lymphocyte Migration and Function and Synergizes with CTLA-4 Blockade in a Murine Ovarian Cancer Model.

"11-5773 was used in Immunohistochemistry to show that the efficacy of anti-CTLA-4 was potentiated by combination with decitabine, which could improve treatment of drug-resistant ovarian cancer."

Authors: Wang L, Amoozgar Z, Huang J, Saleh MH, Xing D, Orsulic S, Goldberg MS

Species
Mouse

Dilution
Not Cited

Year
2015

Molecular therapy : the journal of the American Society of Gene Therapy

Genetic-induced variations in the GAD65 T-cell repertoire governs efficacy of anti-CD3/GAD65 combination therapy in new-onset type 1 diabetes.

"11-5773 was used in Immunohistofluorescence to show that efficacy of combination therapies to reverse new-onset T1D is dependent upon genetic background."

Authors: Bresson D, Fradkin M, Manenkova Y, Rottembourg D, von Herrath M

Species
Mouse

Dilution
Not Cited

Year
2010

Immunohistochemistry (Paraffin) (1)

The American journal of pathology

Foxp3-expressing CD103+ regulatory T cells accumulate in dendritic cell aggregates of the colonic mucosa in murine transfer colitis.

Authors: Leithäuser F, Meinhardt-Krajina T, Fink K, Wotschke B, Möller P, Reimann J

Species
Not Applicable

Dilution
Not Cited

Year
2006

Immunocytochemistry (8)

Diabetes

Dietary supplementation with high doses of regular vitamin D3 safely reduces diabetes incidence in NOD mice when given early and long term.

"11-5773 was used in Immunofluorescence to investigate the effect of vitamin D3 administration during different periods of life on diabetes prevention in NOD mice."

Authors: Takiishi T, Ding L, Baeke F, Spagnuolo I, Sebastiani G, Laureys J, Verstuyf A, Carmeliet G, Dotta F, Van Belle TL, Gysemans CA, Mathieu C

Species
Mouse

Dilution
Not Cited

Year
2014

[View more ICC/IF references on thermofisher.com](#)

More applications with references on thermofisher.com

Flow (154)

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