

FOXP3 Monoclonal Antibody (FJK-16s), Alexa Fluor™ 532, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Bovine, Dog, Cat, Mouse, Pig, Rat
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Alexa Fluor™ 532, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FJK-16s
Conjugate	Alexa Fluor™ 532
Excitation/Emission Max	534/553 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_11218870

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	69 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	8 Publications
Flow Cytometry (Flow)	0.5 µg/test	170 Publications
Immunoprecipitation (IP)	-	1 Publication
ChIP assay (ChIP)	-	1 Publication
In Situ Hybridization (ISH) (ISH)	-	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.

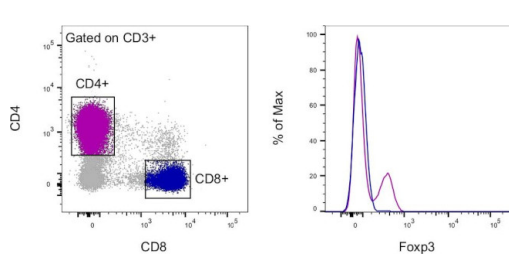
Applications Reported: This FJK-16s antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This FJK-16s antibody has been tested by intracellular staining of mouse splenocytes using 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 can be used at less than or equal to 0.5 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.

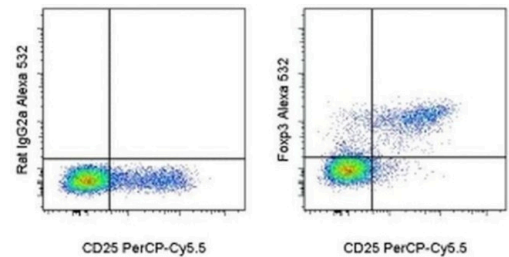
Alexa Fluor® 532 is excited with the Green laser (532 nm) and emits at 561 nm. This cannot be used with the Yellow-Green laser (561 nm). We recommend using a 560/14 band pass filter. Please make sure that your instrument is capable of detecting this fluorochoime.

Excitation: 532 nm; Emission: 561 nm; Laser: Green Laser

Product Images For FOXP3 Monoclonal Antibody (FJK-16s), Alexa Fluor™ 532, eBioscience™



FOXP3 Antibody (58-5773-82)
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 (58-5773-82) in Flow
Surface staining of BALB/c splenocytes with Anti-Mouse CD25 PerCP-Cy5-5 (Product # 45-0251-82) followed by intracellular staining with 0.25 µg of Rat IgG2a K Isotype Control Alexa Fluor® 532 (left) or 0.25 µg of Anti-Mouse/Rat Foxp3 Alexa Fluor® 532 (right) using the Foxp3 Staining Buffers (Product # 00-5523-00). Cells in the lymphocyte gate were used for analysis.

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Immunohistochemistry (69)

Frontiers in immunology	Year 2023
Protective anti-tumor vaccination against glioblastoma expressing the MHC class II transactivator CIITA.	
"Published figure using FOXP3 monoclonal antibody (Product # 58-5773-82) in Immunohistochemistry"	
Authors: Celesti F,Gatta A,Shallak M,Chiaravalli AM,Cerati M,Sessa F,Accolla RS,Forlani G	
Frontiers in immunology	Year 2023
A novel interleukin-2-based fusion molecule, HCW9302, differentially promotes regulatory T cell expansion to treat atherosclerosis in mice.	
"Published figure using FOXP3 monoclonal antibody (Product # 58-5773-82) in Immunohistochemistry"	
Authors: Zhu X,Li Q,George V,Spanoudis C,Gilkes C,Shrestha N,Liu B,Kong L,You L,Echeverri C,Li L,Wang Z,Chaturvedi P,Muniz GJ,Egan JO,Rhode PR,Wong HC	

View more IHC references on thermofisher.com

Immunohistochemistry (Paraffin) (2)

American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons	Year 2012
Deleterious effect of CTLA4-Ig on a Treg-dependent transplant model.	
"Published figure using FOXP3 monoclonal antibody (Product # 58-5773-82) in Immunohistochemistry"	
Authors: Riella LV,Liu T,Yang J,Chock S,Shimizu T,Mfarrej B,Batal I,Xiao X,Sayegh MH,Chandraker A	
The American journal of pathology	Year 2006
Foxp3-expressing CD103+ regulatory T cells accumulate in dendritic cell aggregates of the colonic mucosa in murine transfer colitis.	
"Published figure using FOXP3 monoclonal antibody (Product # 58-5773-82) in Flow Cytometry"	
Authors: Leithäuser F,Meinhardt-Krajina T,Fink K,Wotschke B,Möller P,Reimann J	

More applications with references on thermofisher.com

- IHC (PFA) (1)
- ICC/IF (8)
- Flow (170)
- IP (1)
- ChIP (1)
- ISH (1)

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