

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 (Product # 00-5523-00). The use of other fixation and staining buffers is not recommended.

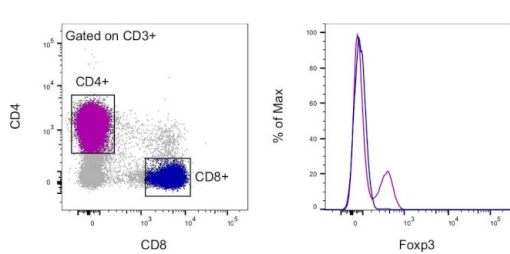
Applications Reported: This FJK-16s antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This FJK-16s antibody has been tested by intracellular staining 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 0.5 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.

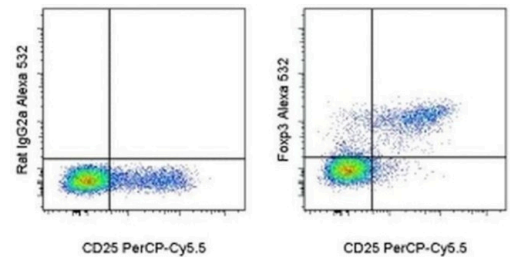
Alexa Fluor® 532 is excited with the Green laser (532 nm) and emits at 561 nm. This cannot be used with the Yellow-Green laser (561 nm). We recommend using a 560/14 band pass filter. Please make sure that your instrument is capable of detecting this fluorochoime.

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.

View more figures on thermofisher.com

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)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.