

FOXP3 Monoclonal Antibody (FJK-16s), eFluor™ 506, 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), eFluor™ 506, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FJK-16s
Conjugate	eFluor™ 506
Excitation/Emission Max	419/508 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_2637367

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	68 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	7 Publications
Flow Cytometry (Flow)	0.5 µg/test	169 Publications
Immunoprecipitation (IP)	-	2 Publications
ChIP assay (ChIP)	-	2 Publications
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.

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

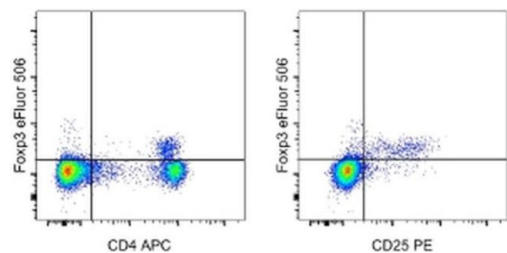
Applications Tested: This FJK-16s antibody has been tested by intracellular staining and flow cytometric analysis of mouse splenocytes using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Refer to Best Protocols for Staining Protocol (refer to Protocol B: One-step 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.

eFluor® 506 can be excited with the violet laser line (405 nm) and emits at 506 nm. We recommend using a 510/20 band pass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

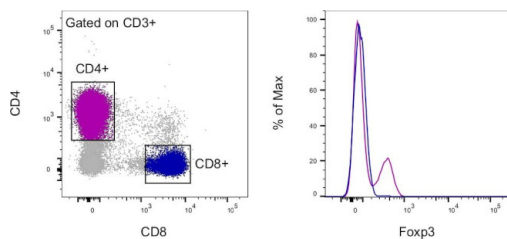
Excitation: 405 nm; Emission: 506 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For FOXP3 Monoclonal Antibody (FJK-16s), eFluor™ 506, eBioscience™



FOXP3 Antibody (69-5773-82) in Flow
Staining of BALB/c splenocytes with Anti-Mouse CD4 APC (Product # 17-0042-82) (left), Anti-Mouse CD25 PE (Product # 12-0251-82) (right), followed by intracellular staining with 0.25 µg of Anti-Mouse/Rat Fxp3 eFluor® 506, using the Fxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Cells in the lymphocyte gate were used for analysis.



FOXP3 Antibody (69-5773-82)
Intracellular staining of mouse splenocytes. As expected based on known relative expression patterns, Fxp3 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 Fxp3 (clone FJK-16s) using the Fxp3 /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}

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Immunohistochemistry (68)

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 # 69-5773-82) 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 # 69-5773-82) 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)

Immunity, inflammation and disease	Year 2020
A free amino acid-based diet partially prevents symptoms of cow's milk allergy in mice after oral sensitization with whey.	
"Published figure using FOXP3 monoclonal antibody (Product # 69-5773-82) in Immunohistochemistry (Paraffin)"	
Authors: van Sadelhoff JHJ,Hogenkamp A,Wiertsema SP,Harthoorn LF,Loonstra R,Hartog A,Garssen J	
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 # 69-5773-82) in Immunohistochemistry"	
Authors: Riella LV,Liu T,Yang J,Chock S,Shimizu T,Mfarrej B,Batal I,Xiao X,Sayegh MH,Chandraker A	

More applications with references on thermofisher.com

- ICC/IF (7)
- Flow (169)
- IP (2)
- ChIP (2)
- ISH (1)

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