

FOXP3 Monoclonal Antibody (FJK-16s), eFluor™ 570, 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™ 570, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FJK-16s
Conjugate	eFluor™ 570
Excitation/Emission Max	556/569 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_11219073

Applications	Tested Dilution	Publications
Western Blot (WB)	-	11 Publications
Immunohistochemistry (IHC)	-	68 Publications
Immunohistochemistry (Paraffin) (IHC (P))	5 µg/mL	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	5 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	5 µg/mL	7 Publications
Flow Cytometry (Flow)	-	2 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.

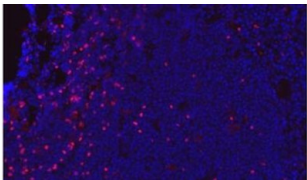
Applications Reported: This FJK-16s antibody has been reported for use in immunohistochemical staining of frozen tissue sections and immunohistochemical staining of formalin-fixed paraffin embedded tissue sections.

Applications Tested: This FJK-16s antibody has been tested by immunohistochemistry of frozen mouse spleen at less than or equal to 5 µg/mL. The FJK-16s antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded mouse tissue using high or low pH antigen retrieval and can be used at less than or equal to 10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. This product has not been validated for flow cytometric analysis.

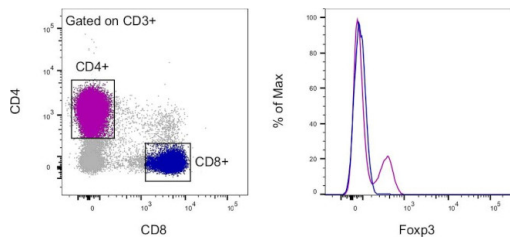
Filter Recommendation: When using this eFluor® 570 antibody conjugate, we recommend a filter that will capture the 570 emission wavelength (for example, Excitation 545/25, 565LP, Emission 605/70). A standard Alexa Fluor® 555 or TRITC filter is acceptable.

Excitation: 555 nm; Emission: 570 nm

Product Images For FOXP3 Monoclonal Antibody (FJK-16s), eFluor™ 570, eBioscience™



FOXP3 Antibody (41-5773-82) in IHC (F)
Immunohistochemistry of frozen mouse spleen using 5 µg/mL Anti-Mouse/Rat Foxp3 eFluor® 570. Nuclei are stained with DAPI.



FOXP3 Antibody (41-5773-82)
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}

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Western Blot (11)

<p>Frontiers in immunology</p> <p>Black raspberry extract inhibits regulatory T-cell activity in a murine model of head and neck squamous cell carcinoma chemoprevention.</p> <p>"Published figure using FOXP3 monoclonal antibody (Product # 41-5773-82) in Western Blot"</p> <p>Authors: Ryan NM,Lamenza FF,Upadhaya P,Pracha H,Springer A,Swingler M,Siddiqui A,Oghumu S</p>	<p>Year</p> <p>2022</p>
<p>Frontiers in immunology</p> <p>Mouse Double Minute 2 Homolog-Mediated Ubiquitination Facilitates Forkhead Box P3 Stability and Positively Modulates Human Regulatory T Cell Function.</p> <p>"Published figure using FOXP3 monoclonal antibody (Product # 41-5773-82) in Western Blot"</p> <p>Authors: Wang A,Yang M,Liang R,Zhu F,Zhu F,Liu X,Han Y,Lin R,Wang X,Li D,Li H,Yuan X,Zhao H,Li B</p>	<p>Year</p> <p>2021</p>

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Immunohistochemistry (68)

<p>Frontiers in immunology</p> <p>Protective anti-tumor vaccination against glioblastoma expressing the MHC class II transactivator CIITA.</p> <p>"Published figure using FOXP3 monoclonal antibody (Product # 41-5773-82) in Immunohistochemistry"</p> <p>Authors: Celesti F,Gatta A,Shallak M,Chiaravalli AM,Cerati M,Sessa F,Accolla RS,Forlani G</p>	<p>Year</p> <p>2023</p>
<p>Frontiers in immunology</p> <p>A novel interleukin-2-based fusion molecule, HCW9302, differentially promotes regulatory T cell expansion to treat atherosclerosis in mice.</p> <p>"Published figure using FOXP3 monoclonal antibody (Product # 41-5773-82) in Immunohistochemistry"</p> <p>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</p>	<p>Year</p> <p>2023</p>

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[IHC \(P\) \(2\)](#)
[IHC \(F\) \(1\)](#)
[ICC/IF \(7\)](#)
[Flow \(2\)](#)
[IP \(2\)](#)
[ChIP \(2\)](#)
[ISH \(1\)](#)

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