

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

## Product Details

Size	100 µg
Species Reactivity	Bovine, Dog, Cat, Mouse, Pig, Rat
Published Species	Dog, Rat, Pig, Mouse, Human, Horse
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	FJK-16s
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467576

Applications	Tested Dilution	Publications
Western Blot (WB)	5 µg/mL	24 Publications
Immunohistochemistry (IHC)	-	126 Publications
Immunohistochemistry (Paraffin) (IHC (P))	5 µg/mL	24 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	5 µg/mL	9 Publications
Immunocytochemistry (ICC/IF)	-	25 Publications
Flow Cytometry (Flow)	-	403 Publications
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	-	3 Publications
ChIP assay (ChIP)	-	1 Publication
In Situ Hybridization (ISH) (ISH)	-	1 Publication
Miscellaneous PubMed (Misc)	-	5 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 '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 western blotting, immunohistochemical staining of frozen tissue sections, immunohistochemical staining, and immunohistochemical staining of formalin-fixed paraffin embedded tissue sections. For additional information, please see Foxp3 FAQs.

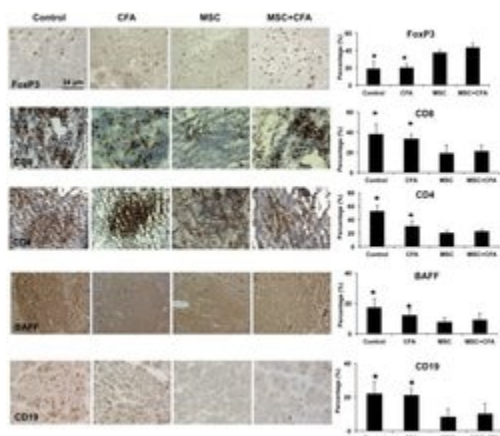
**Applications Tested:** This FJK-16s antibody has been tested by immunoblotting (WB) (1-5 µ/mL) of mouse splenocytes. The FJK-16s antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded mouse tissue using low or high pH antigen retrieval and can be used at less than or equal to 5 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

**Aggregation:** Less than 10%, as determined by HPLC.

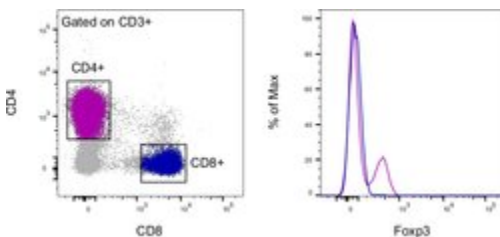
**Filtration:** 0.2 µm post-manufacturing filtered.

## Advanced Verification Data



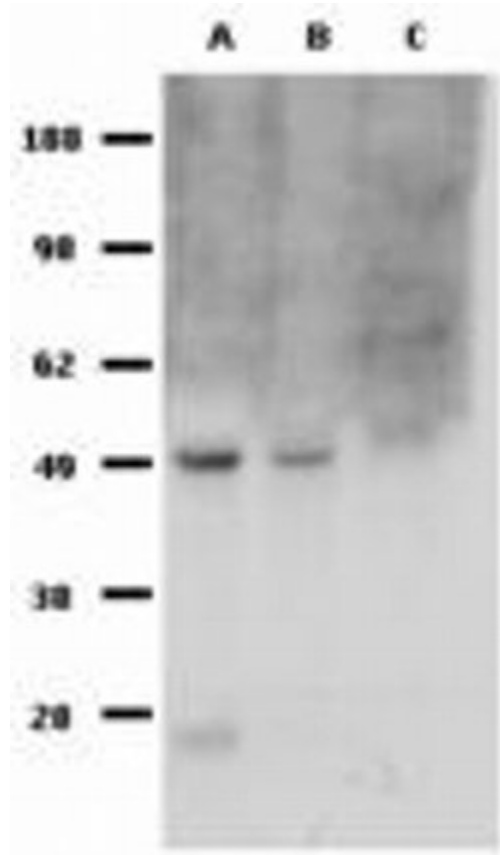
### FOXP3 Antibody (14-5773-82)

Figure 5 Immunohistochemical staining of salivary glands at week 22 (n = 3 to 5 mice per group). Cells positive for Foxp3 + (regulatory T cells), CD8 + (T cytotoxic), CD4 + (T helper), BAFF and CD19 + (B cells) appeared brown in the foci. Graphs on the right represent percentage of positive cells occupying the area of the focus score. Regulatory T cells (Foxp3 +) increased in MSC and MSC+CFA groups (P < 0.05) while T cytotoxic (CD8 +), T helper (CD4 +), BAFF, and B cell (CD19 +) decreased after MSC or MSC+CFA treatment, when compared to control and CFA groups (\* P < 0.05). Cell treatment validation info.



### FOXP3 Antibody (14-5773-82)

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.



**FOXP3 Antibody (14-5773-82) in WB**

Immunoblotting of BALB/c spleen (Lane A), BALB/c thymus (Lane B), or BALB/c bone marrow (Lane C) lysate with 2 µg/mL of Anti-Mouse/Rat Foxp3 Purified and revealed with Anti-Rat IgG HRP. Foxp3 is detected at ~50 kDa.

[View more figures on thermofisher.com](http://thermofisher.com)

Western Blot (24)

Frontiers in immunology

**Mouse Double Minute 2 Homolog-Mediated Ubiquitination Facilitates Forkhead Box P3 Stability and Positively Modulates Human Regulatory T Cell Function.**

"Published figure using FOXP3 monoclonal antibody (Product # 14-5773-82) in Flow Cytometry"

Authors: Wang A, Yang M, Liang R, Zhu F, Liu X, Han Y, Lin R, Wang X, Li D, Li H, Yuan X, Zhao H, Li B

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

Frontiers in physiology

**PTX3 Predicts Myocardial Damage and Fibrosis in Duchenne Muscular Dystrophy.**

"Published figure using FOXP3 monoclonal antibody (Product # 14-5773-82) in Western Blot"

Authors: Farini A, Villa C, Di Silvestre D, Bella P, Tripodi L, Rossi R, Sitzia C, Gatti S, Mauri P, Torrente Y

**Species**  
Mouse  
Not Applicable

**Dilution**  
1:500  
Not Cited

**Year**  
2020

[View more WB references on thermofisher.com](#)

Immunohistochemistry (126)

Cellular and molecular gastroenterology and hepatology

**Abnormal Eating Patterns Cause Circadian Disruption and Promote Alcohol-Associated Colon Carcinogenesis.**

"Published figure using FOXP3 monoclonal antibody (Product # 14-5773-82) in Immunohistochemistry"

Authors: Bishehsari F, Engen PA, Voigt RM, Swanson G, Shaikh M, Wilber S, Naqib A, Green SJ, Shetuni B, Forsyth CB, Saadalla A, Osman A, Hamaker BR, Keshavarzian A, Khazaie K

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

Journal of immunology (Baltimore, Md. : 1950)

**Moderate Exercise Inhibits Age-Related Inflammation, Liver Steatosis, Senescence, and Tumorigenesis.**

"Published figure using FOXP3 monoclonal antibody (Product # 14-5773-82) in Immunohistochemistry"

Authors: Bianchi A, Marchetti L, Hall Z, Lemos H, Vacca M, Paish H, Green K, Elliott B, Tiniakos D, Passos JF, Jurk D, Mann DA, Wilson CL

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (P) (24)

IHC (PFA) (1)

IHC (F) (9)

ICC/IF (25)

Flow (403)

ELISA (1)

IP (3)

ChIP (1)

ISH (1)

Misc (5)

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