

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

Product Details

Size	25 µg
Species Reactivity	Bovine, Dog, Cat, Mouse, Pig, Rat
Published Species	Dog, Cynomolgus monkey, 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_467575

Applications	Tested Dilution	Publications
Western Blot (WB)	5 µg/mL	25 Publications
Immunohistochemistry (IHC)	-	166 Publications
Immunohistochemistry (Paraffin) (IHC (P))	5 µg/mL	29 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	5 µg/mL	10 Publications
Immunocytochemistry (ICC/IF)	-	31 Publications
Flow Cytometry (Flow)	-	481 Publications
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	-	3 Publications
ChIP assay (ChIP)	-	1 Publication
Functional Assay (FN)	-	1 Publication
In Situ Hybridization (ISH) (ISH)	-	1 Publication
Miscellaneous PubMed (Misc)	-	6 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.

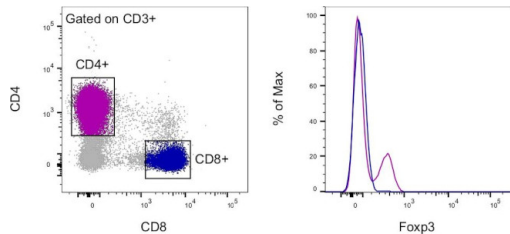
Applications Tested: This FJK-16s antibody has been tested by immunoblotting (WB) (1-5 µg/mL) of mouse splenocytes. The FJK-16s antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded mouse tissue using low or high pH antigen retrieval and can be used at less than or equal 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.

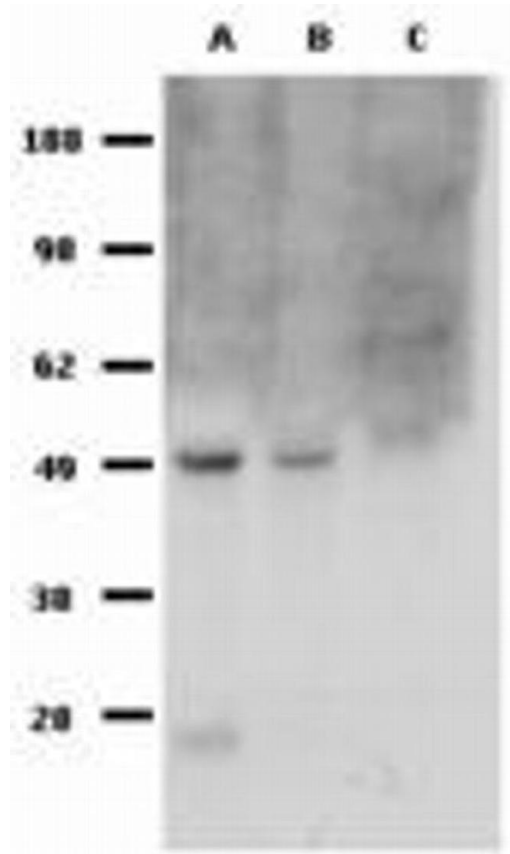
Filtration: 0.2 µm post-manufacturing filtered.

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



FOXP3 Antibody (14-5773-80)

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 (14-5773-80) 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.

756 References

Western Blot (25)

Frontiers in immunology	Year 2022
Black raspberry extract inhibits regulatory T-cell activity in a murine model of head and neck squamous cell carcinoma chemoprevention.	
"Published figure using FOXP3 monoclonal antibody (Product # 14-5773-82) in Western Blot"	
Authors: Ryan NM,Lamenza FF,Upadhaya P,Pracha H,Springer A,Swingler M,Siddiqui A,Oghumu S	
Frontiers in immunology	Year 2021
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,Zhu F,Liu X,Han Y,Lin R,Wang X,Li D,Li H,Yuan X,Zhao H,Li B	

View more WB references on thermofisher.com

Immunohistochemistry (166)

Stem cells international	Year 2023
Delivery of Bone Marrow-Derived Mesenchymal Stem Cells Improves Tear Production in a Mouse Model of Sjögren's Syndrome.	Species Mouse
"14-5773 was used in Immunohistochemistry to study the potential of mouse bone marrow-derived mesenchymal stem cells in improving tear production in Sjogren's syndorme and determine the underlying mechanisms."	Dilution 1:100
Authors: Aluri HS,Samizadeh M,Edman MC,Hawley DR,Armaos HL,Janga SR,Meng Z,Sendra VG,Hamrah P,Kublin CL, Hamm-Alvarez SF,Zoukhri D	
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 # 14-5773-82) in Immunohistochemistry"	
Authors: Celesti F,Gatta A,Shallak M,Chiaravalli AM,Cerati M,Sessa F,Accolla RS,Forlani G	

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

IHC (P) (29)	IHC (PFA) (1)	IHC (F) (10)	ICC/IF (31)	Flow (481)	ELISA (1)	IP (3)	ChIP (1)
FN (1)	ISH (1)	Misc (6)					

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