

FOXP3 Monoclonal Antibody (FJK-16s), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Pig, Rat, Bovine, Dog, Cat, Mouse
Published Species	Rat, Bovine, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FJK-16s
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
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, store in dark, DO NOT FREEZE!
RRID	AB_469916

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	39 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.

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.

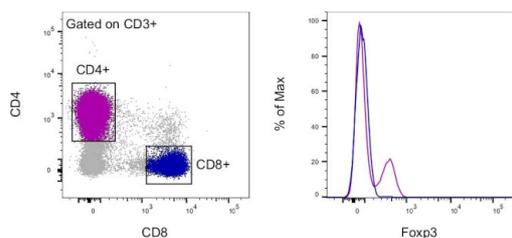
Applications Reported: This FJK-16s antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This FJK-16s antibody has been tested by intracellular staining and flow cytometric analysis 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 0.25 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.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

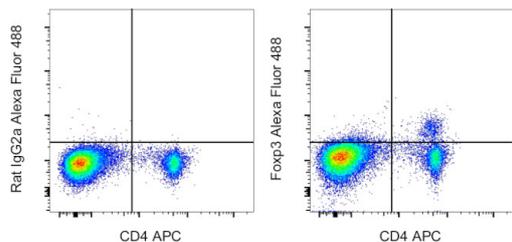
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For FOXP3 Monoclonal Antibody (FJK-16s), Alexa Fluor™ 488, eBioscience™



FOXP3 Antibody (53-5773-80)

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 (53-5773-80) in Flow

C57BL/6 mouse splenocytes were stained intracellularly, using the Foxp3 /Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol, with CD4 Monoclonal Antibody, APC (Product # 17-0042-82) and 0.125 µg of Mouse IgG2a kappa Isotype Control, Alexa Fluor 488 (Product # 53-4724-80) (left) or 0.125 µg of FOXP3 Monoclonal Antibody, Alexa Fluor 488 (right). Cells in the lymphocyte gate were used for analysis.

Immunohistochemistry (1)

Nature communications

Natural killer cells modulate motor neuron-immune cell cross talk in models of Amyotrophic Lateral Sclerosis.

"53-5773 was used in Immunohistochemistry-immunofluorescence to study the role of NK cells in determining the onset and progression of motor neuron degeneration in Amyotrophic Lateral Sclerosis."

Authors: Garofalo S,Cocozza G,Porzia A,Inghilleri M,Raspa M,Scavizzi F,Aronica E,Bernardini G,Peng L,Ransohoff RM,Santoni A,Limatola C

Year
2020

Species
Mouse

Dilution
1:100

Immunohistochemistry (Frozen) (2)

The Journal of experimental medicine

Context-dependent effects of IL-2 rewire immunity into distinct cellular circuits.

"53-5773-82 was used in Immunohistochemistry-immunofluorescence to support that targeted IL-2 production has the potential to amplify or quench particular circuits in the IL-2 network, based on clinical desirability."

Authors: Whyte CE,Singh K,Burton OT,Aloulou M,Kouser L,Veiga RV,Dashwood A,Okkenhaug H,Benadda S,Moudra A,Bricard O,Lienart S,Bielefeld P,Roca CP,Naranjo-Galindo FJ,Lombard-Vadnais F,Junius S,Bending D,Ono MM,Hochepped T,Halim TYF,Schlenner S,Lesage S,Dooley J,Liston A

Year
2022

Species
Mouse

Dilution
1:200

Clinical immunology (Orlando, Fla.)

Age-dependent loss of tolerance to an immunodominant epitope of glutamic acid decarboxylase in diabetic-prone RIP-B7/DR4 mice.

"53-5773 was used in Immunohistochemistry on frozen tissues to identify an age-dependent spontaneous loss of tolerance to two self-antigenic epitopes derived from putative diabetes-associated antigens in HLA specific transgenic mice."

Authors: Gebe JA,Unrath KA,Falk BA,Ito K,Wen L,Daniels TL,Lernmark A,Nepom GT

Year
2006

Species
Mouse

Dilution
1:100

Immunocytochemistry (1)

STAR protocols

Protocol to evaluate cell lineage stability of mouse natural and induced regulatory T cells using bisulfite sequencing.

"53-5773-82 was used in Immunocytochemistry to assess Treg-lineage stability."

Authors: Arai M,Fukuda A,Morimoto R,Nakamura Y,Ci Z,Sakaguchi S

Year
2022

Species
Mouse

Dilution
1:200

More applications with references on thermofisher.com

Flow (39)

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