

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

Product Details

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| 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.

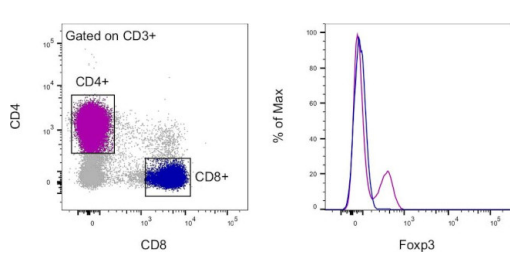
Applications Reported: This FJK-16s antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

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.

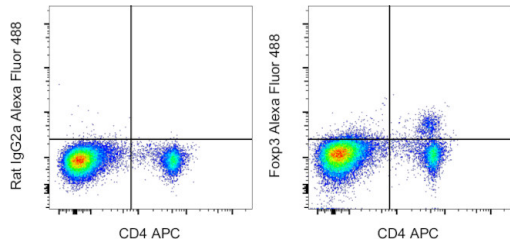
Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

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)

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| Nature communications | Year 2020 |
| Natural killer cells modulate motor neuron-immune cell cross talk in models of Amyotrophic Lateral Sclerosis. | Species Mouse |
| "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." | Dilution 1:100 |
| 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 | |

Immunohistochemistry (Frozen) (2)

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|---|--------------------------|
| The Journal of experimental medicine | Year 2022 |
| Context-dependent effects of IL-2 rewire immunity into distinct cellular circuits. | Species Mouse |
| "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." | Dilution 1:200 |
| 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 | |

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| Clinical immunology (Orlando, Fla.) | Year 2006 |
| Age-dependent loss of tolerance to an immunodominant epitope of glutamic acid decarboxylase in diabetic-prone RIP-B7/DR4 mice. | Species Mouse |
| "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." | Dilution 1:100 |
| Authors: Gebe JA,Unrath KA,Falk BA,Ito K,Wen L,Daniels TL,Lernmark A,Nepom GT | |

Immunocytochemistry (1)

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| STAR protocols | Year 2022 |
| Protocol to evaluate cell lineage stability of mouse natural and induced regulatory T cells using bisulfite sequencing. | Species Mouse |
| "53-5773-82 was used in Immunocytochemistry to assess Treg-lineage stability." | Dilution 1:200 |
| Authors: Arai M,Fukuda A,Morimoto R,Nakamura Y,Ci Z,Sakaguchi C | |

More applications with references on thermofisher.com

Flow (39)

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