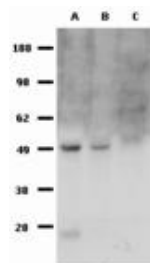


## Product Information

Contents: Affinity Purified anti-mouse/rat Foxp3  
Catalog Number: 14-5773  
Sizes: 25 ug, 100 ug  
Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>  
Storage Conditions: Store at 4°C.  
Avoid repeated freeze/thaw cycles.  
Clone: FJK-16s  
Isotype: Rat IgG2a, κ



*Immunoblotting of BALB/c spleen (Lane A), BALB/c thymus (Lane B), or BALB/c bone marrow (Lane C) lysate (sonicated in sample loading buffer) loaded at 1x10<sup>6</sup> cells/lane; probed with 2 µg/mL purified FJK-16s and revealed with HRP anti-rat IgG. Foxp3 is detected at ~50 kDa.*

### Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-5773	FITC anti-mouse/rat Foxp3	488	518	IC IH/F
12-5773	PE anti-mouse/rat Foxp3	488	575	IC
13-5773	Biotin anti-mouse/rat Foxp3	N/A	N/A	IC IH/F WB
14-5773	Affinity Purified anti-mouse/rat Foxp3	N/A	N/A	IH/F WB
15-5773	Phycoerythrin-Cy5 (PE-Cy5) anti-mouse/rat Foxp3	488	670	IC
17-5773	Allophycocyanin (APC) anti-mouse/rat Foxp3	633	660	IC
51-5773	~2-3 weeks upon ordering - Alexa Fluor® 647 anti-mouse/rat Foxp3			IC
52-5773	~2-3 weeks upon ordering - Alexa Fluor® 405 anti-mouse/rat Foxp3			IC
53-5773	~2-3 weeks upon ordering - Alexa Fluor® 488 anti-mouse/rat Foxp3			IC
56-5773	~2-3 weeks upon ordering - Alexa Fluor® 700 anti-mouse/rat Foxp3			IC

## Description

For proper mouse/rat Foxp3 detection with the FJK-16s antibody, it is absolutely required that the eBioscience Foxp3 Staining Buffers (cat. 00-5523) and corresponding staining protocol be used.

Please see the following link for FAQ regarding the usage of eBioscience Foxp3 reagents.  
<http://www.ebioscience.com/ebioscience/Foxp3FAQs.htm>

The FJK-16s antibody reacts with mouse/rat 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.

Intracellular staining of mouse splenocytes with FJK-16s using the PE anti-mouse/rat Foxp3 Staining Set and protocol reveals approximately 2% of total cells in the C57Bl/6 strain and approximately 3-5% in the BALB/c mouse strain. Multicolor flow cytometric analysis demonstrates approximately 90% of the CD4+CD25+ cells and 4% of the CD4+CD25- cells staining with FJK-16s. B220+, CD11b+, CD11c+, and Ly6G/Gr-1+ cells do not show significant co-staining with FJK-16s.

Please note that FJK-16s has been optimized for use with the mouse Foxp3 Staining Set (cat. 72-5775 or 71-5775 or 77-5775). The use of other fixation and staining buffers is not recommended.

FJK-16s cross-reacts with rat Foxp3. This has been demonstrated by intracellular staining of Foxp3 and flow cytometry of rat splenocytes using the same method and reagents as used for mouse tissue.

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#### Usage

For research use only, not for diagnostic or therapeutic use. This FJK-16s antibody has been reported for use in immunoblotting (WB) and immunohistological staining of frozen tissue sections. For additional information, please see <http://www.ebioscience.com/ebioscience/Foxp3FAQs.htm>.

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#### Applications Tested

This FJK-16s antibody has been tested by immunoblotting (WB) (1-5µg/ml) of mouse splenocytes.

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#### Related Products

Cat. 14-4321 Affinity Purified Rat IgG2a Isotype Control  
Cat. 11-5770 Please see 71-5775-40 for alternate product, Fluorescein isothiocyanate (FITC) anti-mouse Foxp3 (clone mFOXY)  
Cat. 12-5770 Please see 72-5775-40 for alternate product, Phycoerythrin (PE) anti-mouse Foxp3 (clone mFOXY)  
Cat. 14-5770 Affinity Purified anti-mouse Foxp3 (clone mFOXY)  
Cat. 14-5772 Affinity Purified anti-mouse Foxp3  
Cat. 11-5773 FITC anti-mouse/rat Foxp3 (clone FJK-16s)  
Cat. 12-5773 PE anti-mouse/rat Foxp3 (clone FJK-16s)  
Cat. 72-5776 PE anti-human Foxp3 Staining Set (preferentially stains CD4+CD25hi) (clone PCH101 Set)

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#### References

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