

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

Product Details	
Size	100 µg
Species Reactivity	Bovine, Dog, Cat, Mouse, Pig, Rat
Published Species	Dog, Rat, Pig, Fish, Cat, Mouse, Human, Horse
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FJK-16s
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465936

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	424 Publications
Functional Assay (FN)	-	1 Publication
Immunocytochemistry (ICC)	-	3 Publications
Immunofluorescence (IF)	-	8 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunohistochemistry (IHC)	-	4 Publications
In vitro Assay (IV)	-	1 Publication
Western Blot (WB)	-	1 Publication

## 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 'scuffy' (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 (cat. 00-5523). The use of other fixation and staining buffers is not recommended.

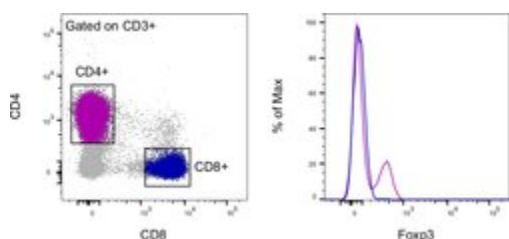
Applications Reported: This FJK-16s antibody has been reported for use in intracellular flow cytometric analysis.

Applications Tested: This FJK-16s antibody has been tested by intracellular flow cytometric analysis of mouse splenocytes using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) 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 antibody can be used at less than or equal to 1 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 10<sup>5</sup> to 10<sup>8</sup> cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

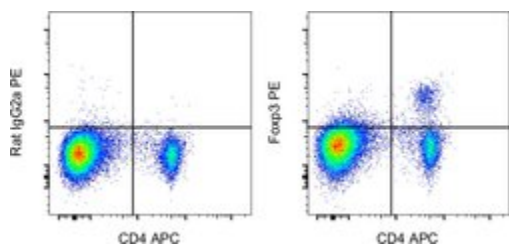
## Advanced Verification Data



### FOXP3 Antibody (12-5773-82)

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.

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



### FOXP3 Antibody (12-5773-82) 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 0.5 µg of Rat IgG2a kappa Isotype Control, PE (Product # 12-4321-82) (left) or 0.5 µg of Foxp3 Monoclonal Antibody, PE (right). Cells in the lymphocyte gate were used for analysis.

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## Flow Cytometry (424)

### Oncoimmunology

#### Compensatory upregulation of PD-1, LAG-3, and CTLA-4 limits the efficacy of single-agent checkpoint blockade in metastatic ovarian cancer.

"Published figure using FOXP3 monoclonal antibody (Product # 12-5773-82) in Flow Cytometry"

Authors: Huang RY,Francois A,McGray AR,Miliotto A,Odunsi K

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2019

### Oncoimmunology

#### Improved migration of tumor ascites lymphocytes to ovarian cancer microenvironment by CXCR2 transduction.

"12-5773 was used in Flow cytometry/Cell sorting to study whether T cells expressing chemokine receptors matching chemokine expression in the tumour microenvironment would improve homing to immunosuppressive tumour sites."

Authors: Idorn M,Olsen M,Haldórsdóttir HR,Skadborg SK,Pedersen M,Høgðall C,Høgðall E,Met Ö,Thor Straten P

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2019

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

## Immunocytochemistry (3)

### The Journal of clinical investigation

#### PPAR deacetylation dissociates thiazolidinedione's metabolic benefits from its adverse effects.

"12-5773 was used in Immunocytochemistry-immunofluorescence to show that targeted PPAR mutations result in constitutive deacetylation, increased energy expenditure and protect from visceral adiposity and diet-induced obesity by augmenting brown remodelling of white adipose tissues."

Authors: Kraakman MJ,Liu Q,Postigo-Fernandez J, Ji R,Kon N,Larrea D,Namwanje M,Fan L,Chan M,Area-Gomez E,Fu W,Creusot RJ,Qiang L

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2018

### Immunology and cell biology

#### The bullseye synapse formed between CD4+ T-cell and staphylococcal enterotoxin B-pulsed dendritic cell is a suppressive synapse in T-cell response.

"12-5773 was used in Immunocytochemistry to indicate that bullseye immunological synapse formation is mediated by cytotoxic T-lymphocyte antigen-4, and may negatively control T-cell activation as a suppressive synapse."

Authors: Lin W,Fan Z,Suo Y,Deng Y,Zhang M,Wang J,Wei X,Chu Y

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2015

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

## More applications with references on thermofisher.com

IF (8) IHC (4) WB (1) IV (1) FN (1) IHC (F) (1)

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