

# FOXP3 Monoclonal Antibody (NRRF-30), PE, eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	NRRF-30
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 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_529580

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	36 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

Description: The NRRF-30 antibody reacts with mouse 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 NRRF-30 antibody has mapped the epitope to amino acids 1-75 of the mouse Foxp3 protein.

Intracellular staining of mouse splenocytes with fluorochrome-conjugated NRRF-30 using the eBioscience Foxp3 Staining Buffers (cat. 00-5523) and corresponding staining protocol reveals approximately 3% of total cells in the C57Bl/6 strain and approximately 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 NRRF-30. Co-staining with FJK-16s (anti-mouse/rat Foxp3 cat. 71-5775), which has been mapped to amino acids 71-125, and NRRF-30 shows 100% correlation, indicating that the same cells are stained with both anti-mouse Foxp3 antibodies.

Please see our FAQ regarding the usage of eBioscience Foxp3 reagents.

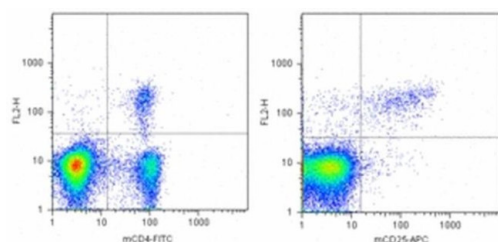
**Applications Reported:** This NRRF-30 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

**Applications Tested:** This NRRF-30 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 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 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.

## Product Images For FOXP3 Monoclonal Antibody (NRRF-30), PE, eBioscience™



### FOXP3 Antibody (12-4771-82) in Flow

BALB/c splenocytes were surface-stained with Anti-Mouse CD4 FITC (Product # 11-0042-82) (left) and Anti-Mouse CD25 APC (Product # 17-0251-82) (right), then intracellularly with Anti-Mouse Foxp3 PE using the Foxp3 Staining Buffer Set (Product # 00-5523-00). Cells in the lymphocyte gate were used for analysis.

Immunocytochemistry (1)

<p>The Journal of allergy and clinical immunology</p> <p><b>Regulatory B cells prevent and reverse allergic airway inflammation via FoxP3-positive T regulatory cells in a murine model.</b></p> <p>"12-4771 was used in Immunocytochemistry to identify and characterise the specific helminth-induced regulatory B-cell subpopulation, and determine the mechanism by which these regulatory B cells suppress allergic airway inflammation."</p> <p>Authors: Amu S,Saunders SP,Kronenberg M,Mangan NE,Atzberger A,Fallon PG</p>	<p>Year 2010</p> <p>Species Mouse</p>
---	---

Flow Cytometry (36)

<p>Experimental and therapeutic medicine</p> <p><b>Ding's herbal enema treats dextran sulfate sodium-induced colitis in mice by regulating the gut microbiota and maintaining the Treg/Th17 cell balance.</b></p> <p>"12-4771-82 was used in Flow cytometry/Cell sorting to determine the molecular mechanism of the effect of DHEP in UC treatment."</p> <p>Authors: Tan YY,Ding Y,Zheng X,Dai GJ,Zhang SM,Yang X,Xu DC,Chen P,Zhang JM,Ma JZ,Li M,Huang SC,Liu Y, Zhang YT,Xing H,Ding K,Ding YJ</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:500</p>
<p>JCI insight</p> <p><b>Obesity results in adipose tissue T cell exhaustion.</b></p> <p>"12-4771-82 was used in Flow Cytometry to assess adipose tissue T cells activation and inflammatory potential within mouse and human stromal vascular fraction."</p> <p>Authors: Porsche CE,Delproposto JB,Geletka L,O'Rourke R,Lumeng CN</p>	<p>Year 2021</p> <p>Species Mouse</p>

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

Miscellaneous PubMed (1)

<p>Nature methods</p> <p><b>Identification of cell types in multiplexed in situ images by combining protein expression and spatial information using CELESTA.</b></p> <p>"12-4771-82 was used in In vivo experiments to demonstrate the power of CELESTA to facilitate identification of clinically relevant interactions."</p> <p>Authors: Zhang W,Li I,Reticker-Flynn NE,Good Z,Chang S,Samusik N,Saumyaa S,Li Y,Zhou X,Liang R,Kong CS,Le QT, Gentles AJ,Sunwoo JB,Nolan GP,Engleman EG,Plevritis SK</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:20</p>
---	--

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.